



SELF-IMPLEMENTING CLEANUP PLAN
INTERNATIONAL BACCALAUREATE
SCHOOL
EAST BUILDING AND CONNECTORS

Site Location

85 Edwards Street
Hartford, CT

Prepared For

Hartford School Building Committee

Hartford, Connecticut

Prepared By

TRC
Windsor, Connecticut

May, 2011



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TRC Project No. 181125.1000.0000
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1.0 INTRODUCTION

TRC has prepared this Self-Implementing Cleanup Plan (SIP) for use by the Hartford Building School Committee (HBSC) in conducting site remediation tasks prior to the performance of site renovation and demolition tasks at the International Baccalaureate School (formerly Thomas J. Quirk Middle School) (Site) located at 85 Edwards Street in Hartford, Connecticut. The Site, which is part of the Hartford School System, is owned by the City of Hartford. The HBSC will have contract oversight for the work contained in this SIP and, therefore, will be responsible for the cleanup. Correspondences of final approvals or actions should be address to:

James A. Keaney Jr.
Director of Capital Projects
City of Hartford
525 Main Street, 4th Floor
Hartford, CT 06103

The goal of Site remediation detailed in this SIP is to achieve compliance with applicable federal regulations as stated in 40 CFR §761.61(a), §761.61(c), §761.62(a), and 761.79(h). An additional goal is to achieve compliance with the applicable state regulations as stated in the Regulations of Connecticut State Agencies (RCSA) Sections 22a-133k-1 through 22a-133k-3 (Remediation Standards Regulations), inclusive, and 22a-463 through 22a-469 (PCB Regulations), inclusive. This SIP only addresses environmental issues related to PCBs and includes an outline of the approach and procedures that Contractors will follow to ensure achievement of the remedial objectives.

Specifically, the remedial goals for the Site to achieve compliance with the federal regulations are as follows:

- To remove all PCB-containing caulks and window glazings classified as PCB Bulk Product Wastes and to remove building materials potentially contaminated through contact with PCB-containing caulks and window glazings (substrates) and classified as PCB Remediation Wastes from buildings that are scheduled for demolition/renovation prior to performance of these activities;

- To remove all soil/surface cover adjacent to the buildings with total PCB concentrations ≥ 1 mg/kg contaminated by releases from PCB Bulk Product Wastes and classified as PCB Remediation Wastes; and
- To perform sufficient verification sampling following the removal efforts to demonstrate compliance with the applicable federal regulations.

The remedial goals for the Site to achieve compliance with the state regulations are as follows:

- To remove all PCB-containing caulks and window glazings with concentrations greater than 1 mg/kg and to remove building materials potentially contaminated through contact with PCB-containing caulks (substrates), if necessary, from buildings;
- To remove all soil/surface cover adjacent to the buildings with total PCB concentrations > 1 mg/kg contaminated by releases from state – regulated PCB-containing caulk and window glazing; and
- To perform sufficient verification sampling following the removal efforts to demonstrate compliance with the applicable state regulations.

A remedial approach has been developed for this project to achieve compliance with the remedial goals as stated and is presented herein.

1.1 Site Description and Location

The Site consists of the International Baccalaureate School (formerly Thomas J. Quirk Middle School) which is located on an eleven acre site in a residential area at 85 Edwards Street, Hartford, Connecticut, see Figure 1 for a Site aerial view. The facility was utilized as a middle school designated for use by seventh and eighth grade which closed in 2010 and is currently unoccupied. The Site comprises two buildings constructed in 1972 interconnected by tunnels and bridges with a gross building area of approximately 214, 805 square feet (SF). The east building remains empty and the west building is currently being utilized by the Hartford Police Department as a training facility. The building sits on an elevated plateau. The site slopes north of the building toward Albany Avenue with an 18 foot change in grade. Similarly, the site slopes

toward Walnut Street, southwest of the building, with a 14 foot grade change in this direction. A landscaped plaza is located in front of the school with shrubs, flowers and picnic benches. Trees line the eastern border of the parking lot near Edwards Street. There are also trees south of the unmarked paved area, south of the school. The majority of the area immediately surrounding the building is paved with asphalt or concrete with some areas of exposed soil present.

1.2 Building Construction and Renovation History

The school was built in 1972, remains intact and apparently unrenovated and consists of two, three story brick and cinder block buildings connected by walkway tunnels and bridges. Interior walls are constructed primarily of sheetrock over concrete blocks and the floors are concrete. Support columns and the building frame are constructed of steel. Four sets of stairs connecting the ground through third levels are constructed of concrete. Windows are of original steel construction. A boiler room is located in the west building on the ground level and the east building has two HVAC mechanical rooms on three floors. The built-up roof consists of asphalt roll-on roofing over gypsum on metal decking and appears to be homogeneous throughout both buildings and the connectors.

1.3 Description of Planned Renovation Activities

This plan was created for the east building and connectors (walkway tunnels and bridges). The renovation project planned for the school will disconnect the buildings above grade and renovate as-new the east building with the west building not included in the scope of the project. A renovation project is planned for the School with work to commence in the fall of 2011. Beginning on April 26, 2011, plans for the renovation project will be submitted to the State of Connecticut School Facilities Unit for their review and eventual approval. For the following years, the building will remain vacant. This will allow work on the school to continue without interruption until completion with no "School in Session." Renovation work will include asbestos abatement, lead abatement, PCB abatement and PCB Remediation Waste (a limited amount of building substrates and soil) removal. Renovation activities will include removal all windows and doors from the entire

east building and complete demolition of all interior walls. In summary, the interior portion of the building will be a total gut/rehab with new areas of construction planned. A radon mitigation system will be installed beneath all new construction. General construction is anticipated to commence in the fall of 2011.

Renovation history for the buildings was not readily available however upon visual inspection it was evident that the east building and connectors remain as-built.

2.0 SAMPLING PROGRAM DESCRIPTION

Initial building surveys and sampling were performed in January – March, 2011 to categorize interior and exterior caulks and glazings at the Site. Subsequent to this sampling, additional investigations were performed to determine PCB concentrations within building materials adjacent to areas with PCB Bulk Product Wastes/State Regulated Materials and to characterize the extent of impacts to soil or other surface cover materials that may have been affected by flaking or deteriorating PCB wastes. In addition to this sampling, additional building survey and sampling work was performed to ensure that all caulks and glazings at the site were characterized and that their locations were known with a high level of accuracy. Analytical data reports for all sampling, initial building survey and follow-up sampling programs are included in Appendix A.

All of the caulk and glazing analytical results are presented in Table 1 and the sampling data for building materials adjacent to caulks and glazings are presented in Table 2. Figure 2-3E shows the locations for bulk material and building substrate samples. Sampling data for surface cover materials which include mostly asphalt and concrete with limited areas of soil are presented in Table 3. Figure 4 shows the sampling locations for surface cover materials.

2.1 Bulk Product Building Material Sampling and Results

On January 26, 2011 and March 15, 2011, TRC surveyed the building (East Building and Connectors) and collected caulk and glazing samples. Sampling methodology involved collecting a single grab sample per homogenous material type identified by completely removing the caulk and the glazing from the location and inspecting to determine if there were any other materials present at the location. All of the caulks and glazings were determined to be original to construction or were placed into a location where all previously applied caulks and glazings had been removed.

Building surveys were performed following techniques generally employed in the Building Sciences industry to identify, locate and sample homogeneous building materials (i.e. Asbestos Hazard Emergency Response Act [AHERA] asbestos sampling guidelines). All major construction was performed prior to the federal ban on PCB use and no portions of the buildings were excluded

in the scope of the survey. The Environmental Protection Agency (EPA) Methods 8082/3540C (PCB analysis with soxhlet extraction) was used for analysis at a State of Connecticut approved laboratory.

Based on the laboratory analytical results for the suspect PCB samples, Building materials were grouped into one of three categories as described in the sections which follow. Sample descriptions and an analytical results summary are presented in Table 1.

2.1.1 PCB Bulk Product Waste

All caulk and glazing samples with total PCB concentrations ≥ 50 mg/kg were included in this category and only three exterior caulk samples met the PCB Bulk Product Waste criteria.

- The exterior expansion joint caulk (EJC) was found between joints in the exterior brick façade, along the vertical sides of the windows and along the horizontal length of the mechanical room intake vents. Total PCB concentrations in this caulk were determined to be 100,000 mg/kg.
- The exterior window sill cap caulk (EWS) was found below the metal window sill cap where it meets the brick façade on the second and third floors and where it meets concrete on the first floor. Total PCB concentrations in this caulk were determined to be 56,000mg/kg.
- The exterior door caulk (EDC) was found along the metal door frames where it meets the brick façade. Total PCB concentrations in this caulk were determined to be 46,000 mg/kg.

2.1.2 Excluded PCB Products/State Regulated PCB Products

Building caulks and glazing were determined to be Federally Excluded PCB Products/State Regulated PCB Products if the in-situ total PCB concentrations was >1 mg/kg and <50 mg/kg and if it could be determined that the caulk was original and that the total PCB concentration had not been modified by subsequent activities. Of the fourteen (14) building caulks/glazes sampled, ten (10) were determined to be Excluded PCB Products/State Regulated PCB Products.

- The exterior hard light grey window glazing (EWG1) was identified throughout all

the exterior windows. Total PCB concentrations in this caulk were determined to be 35 mg/kg.

- The exterior hard grey door window glazing (EDWG1) was identified throughout the exterior door windows. Total PCB concentrations in this caulk were determined to be 2.1 mg/kg.
- The exterior flexible brown door window glazing (EDWG3) was identified on two out of twenty-eight exterior door windows. Total PCB concentrations in this caulk were determined to be 13 mg/kg.
- The exterior window caulk (EWC) was identified throughout all the exterior windows. Total PCB concentrations in this caulk were determined to be 17 mg/kg.
- The interior counter backsplash caulk (C1) was identified on Formica countertops where the counter and backsplash meet in Rooms 103, 105, 110, 113, 115, 116, 118, 211 A, 211B, 308, 311A, 311B, 325. Total PCB concentrations in this caulk were determined to be 2.2 mg/kg.
- The interior window glazing (WG1) was identified throughout all the exterior windows. Total PCB concentrations in this caulk were determined to be 29 mg/kg.
- The interior window glazing (WG2) was identified throughout the interior windows in Rooms 102, 106, 112, 113, 209, 210, 223, 224, 309, 310, 323, 324, 2nd & 3rd Floor Administrative Suites. Total PCB concentrations in this caulk were determined to be 1.1 mg/kg.
- A light gray caulk was identified on the roof skylight. Total PCB concentrations in this caulk were determined to be 4.03 mg/kg.
- A dark gray caulk was identified on the roof skylight. Total PCB concentrations in this caulk were determined to be 1.1 mg/kg.
- A red caulk was identified on the roof skylight. Total PCB concentrations in this caulk were determined to be 1.03 mg/kg.

2.1.3 Excluded PCB Products/Non-State Regulated PCB Products

Building caulks and glazing were determined to be Federally Excluded PCB Products/Non-State Regulated PCB Products if the in-situ total PCB concentration was <1 mg/kg and if it could be determined that the caulk was original and that the total PCB concentration had not been modified by subsequent activities. Of the fourteen (14) building materials sampled, one (1) was determined to be Excluded PCB Product/Non-State Regulated PCB Product. The exterior sticky black door window glazing (EDWG2) was identified on seven out of twenty-eight exterior door windows and will not be discussed further.

2.2 Building Material Substrate Sampling and Results

Building material substrate samples were collected in a manner that would allow for determination of the effectiveness of the proposed removal activities and potential characterization of the substrates as PCB Remediation Wastes according to 90 CFR 761 Subpart N modified to meet the needs of this sampling program. Proposed removal activities include the complete removal of PCB Bulk Product Wastes and a portion of the adjacent building substrates (PCB Remediation Waste) sufficient to meet the remedial objective PCB concentration of <1.0 mg/kg. No substrate sampling was conducted in areas where glazing/caulking meets glass (non-porous) and unpainted metal or where caulk meets non-porous Formica countertops as planned renovation activities call for complete removal of the windows, doors and counters. In these cases, the entire window/door, frames and countertops will be removed and disposed of based on the PCB concentrations detected in the caulks and glazings.

Initial representative samples of building material substrates were collected on March 1, 2011, at a distance of twelve and six inches from the subject caulked seams. On March 18, 2011 further representative samples of building material substrates were collected at distance of three and zero inches from the subject caulked seams. This was accomplished by measuring the distance from the caulked seam and then marking a line parallel to the caulked seam on the building materials to be sampled. Samples were collected following the EPA Region 1 Standard Operating Procedure for Sampling Concrete at each of the location to a depth of ½". Samples

were extracted and analyzed using EPA Methods 3540C and 8082, respectively, and all analytical results were reported on a dry weight basis.

Based on the laboratory analytical results for the potential PCB Remediation Waste (Building Substrates) samples, building materials were grouped into one of two categories as described in the sections which follow.

2.2.1 PCB Remediation Waste

Building material substrates in contact with PCB Bulk Product Wastes and/or State Regulated caulks/glazes with total PCB concentrations ≥ 1 mg/kg are considered to be PCB Remediation Wastes. No evidence of re-caulking was found at any of the sample locations. On March 1, 2011, six sets of samples were collected at distances of twelve inches and six inches from the caulk line in one location for each type of PCB Bulk Product (≥ 50 ppm) and associated porous substrate. All twelve (12) samples collected at these distances were less than 1 mg/kg total PCBs. Therefore, on March 18, 2011, thirteen (13) additional sets of samples were collected at distances of three inches and zero inches (point of contact) from the caulk line in four locations for each type of PCB Bulk Product and associated porous substrate. All thirteen samples collected at the three inch distance were less than 1 mg/kg total PCBs. However, twelve of thirteen samples taken at the zero inch distance were >1 mg/kg total PCBs indicating the brick and concrete directly next to Exterior Expansion Joint Caulk, Exterior Door Caulk and Exterior Window Sill Cap Caulk out to a distance of three inches is considered PCB Remediation Waste. Analytical results for building substrate samples are summarized in Table 2 and building substrate sample locations are shown on Figures 2-3E.

2.2.2 Unregulated Materials

Building material substrates in contact with either PCB Bulk Product Wastes or State Regulated Materials with concentrations <1.0 mg/kg are considered unregulated materials. Of the thirteen representative building substrate samples collected at a distance of three inches and six samples collected at distances of six inches and twelve inches, all exhibited concentrations of PCB <1.0 mg/kg. Thus materials substrates beyond three inches from the caulks are considered non-

regulated.

No State Regulated Materials were located in contact with porous materials; therefore no substrates were sampled adjacent to these materials. State Regulated Materials were located in areas where glazing meets non-porous glass and unpainted non-porous metal or where caulk meets non-porous Formica countertops. In these cases, the entire window/door, frames and countertops will be removed and disposed of based on the PCB concentrations detected in the caulks/glazings.

2.3 Exterior Surface Cover Sampling and Results

Sampling of exterior surface cover materials directly beneath horizontal and vertical applications of PCB Bulk Product Wastes and/or State Regulated caulks/glazes was performed on March 15 and March 18, 2011, according to 40 CFR Part 761 Subpart N modified to meet the needs of this sampling program. Specifically, surface cover samples were collected a distance of 1 foot from the base of the building at ten foot intervals (for horizontal applications) and beneath vertical applications.

All soil samples were collected as grab samples of a soil interval not to exceed three inches in depth. All asphalt and concrete samples were collected following the EPA Region 1 SOP for sampling porous materials to a depth of ½". No compositing of grab samples was performed and grab samples were extracted and analyzed using EPA Methods 3540C and 8082, respectively, and all analytical results were reported on a dry weight basis.

The following provides details concerning the delineation of PCB-impacted surface covers at each of the areas where remediation will be required. Surface cover remediation excavation and verification sampling procedures are discussed further below.

2.3.1 PCB Remediation Wastes

Of the one hundred and three (103) grab samples collected, eight consisted of soil samples, thirty consisted of asphalt samples and sixty-five consisted of concrete samples.

Of the eight surface soil samples collected, two samples were classified as PCB Remediation Wastes, with the total PCB concentrations ≥ 1.0 mg/kg and <50 mg/kg. Of the thirty grab samples for asphalt collected, six samples were classified as PCB Remediation

Wastes, with the total PCB concentrations ≥ 1.0 mg/kg and <50 mg/kg. Of the sixty-five grab samples for concrete collected, five samples were classified as PCB Remediation Wastes, with the total PCB concentrations ≥ 1.0 mg/kg and <50 mg/kg. Analytical results for surface cover materials are summarized in Table 3. Surface cover sample locations are shown on Figure 4..

3.0 REMEDIATION PROCEDURES

The goal of building material remediation efforts is to ensure that all PCB Bulk Product Wastes and the associated building materials classified as PCB Remediation Wastes as well as state-regulated materials are removed from areas prior to building demolition or renovation activities. PCB Bulk Product Wastes/State Regulated Materials (caulk and glazing), and building materials classified as PCB Remediation Wastes will be removed utilizing abatement work practices and engineering controls to limit the potential release of PCB dust/debris. The work will be performed by a specialty contractor utilizing workers afforded appropriate hazard communication training and under the supervision of an appropriately educated and trained third party (field inspector) who can validate appropriate removal techniques and confirm thorough removal of identified materials. All materials will be containerized and then transported offsite for appropriate disposal.

Exact means and methods for all building material removal actions cannot be specified as sufficient construction drawings are not available for the structures to be demolished or renovated. The guidelines provided below present the general procedures that are to be followed for the removal of building materials but the contractor will have to determine exact removal actions during the performance of the work.

No segregation of PCB wastes will be performed during building material abatement work and the caulks and glazings will be removed together with the affected building substrates at each location. For this particular project, the remedial standard for all verification samples will be total PCB concentrations <1 mg/kg. Achieving this remedial standard at all verification sampling locations will allow for the remaining building materials to be demolished as “clean” or to remain in place and to be repaired during subsequent renovation activities.

Soil and surface cover remediation will also be performed during the project. Soil/Surface Cover remediation procedures and subsequent verification sampling are discussed in more detail below.

3.1 Safety and Monitoring Requirements

The demolition and renovation project will be performed as described above and it is anticipated that workers and students will not use school buildings while removal and abatement is ongoing. However, to prevent exposure of onsite workers to potentially PCB-contaminated dust, Control Areas will be established outside of the Regulated/Containment/Soil/Surface Cover Excavation Areas. Only properly trained personnel associated with the removal, abatement, and soil/surface cover excavation actions will be allowed within the Control Areas that will be established by placing barriers with signs indicating that access to the area is restricted. The field inspector will maintain the Control Areas and escort unauthorized personnel from the area promptly. Only those personnel actively working on the removal, abatement, and soil/surface cover excavation actions will be allowed within the Regulated/Containment Area and they shall be equipped with Personal Protective Equipment (PPE).

For PCB-contaminated material removals, dust monitoring will be performed in the Control Area immediately outside the Regulated/Containment Area prior to initiating the removal action, during performance of the action, and following the removal which will include the break-down of the Regulated/Containment Area. For PCB-contaminated material removals monitoring will be performed for total suspended particulates (TSP)(dust). The background concentration within each interior Control Area will be determined prior to initiating remedial actions and a control area background level will be established. If, during the performance of air monitoring during removals, dust levels outside the Regulated/Containment Area are observed to increase by 20-percent over the background level determined prior to the remediation, the contractor shall be instructed to stop work and to inspect and reestablish, as necessary, the Regulated/Containment Area and associated engineering controls. The Contractor shall then be required to decontaminate the Control Area outside Regulated/Containment Area if it is found that the containment or engineering controls failed or were not functioning properly.

For soil/surface cover excavation activities, the remedial contractor will be required to employ dust suppression measures, most likely watering, to prevent dust generation. It is not anticipated that OSHA limits for dust or PCB exposures will be approached. The dust

suppression will be employed to prevent the potential release of PCBs to the surrounding environment and the contractor will be directed to employ dust suppression measures if any dust generation is observed.

3.2 Public Communication

Public outreach will be performed both prior to initiating and during the project to inform the community of the activities that will be performed at the Site to address PCB contamination. Prior to mobilizing to the site a letter will be sent out to parents and faculty members describing the remediation program that will be part of the renovation program at the site. A draft of this letter is included in Appendix B. Additional information will be provided to the community during the performance of the project as needed or requested by the affected community.

3.3 Engineering Control Descriptions

Engineering controls to be implemented for exterior remediation will follow along similar guidelines as used when conducting asbestos abatement activities. Engineering controls will be modeled after OSHA Class I asbestos engineering controls for interior remediation work, and modeled after exterior OSHA Class II asbestos engineering controls for exterior remediation work. A description of these activities is as follows. More detailed descriptions will be provided in specifications for the work which shall serve as the Contractor's Workplan for the work.

3.3.1 Interior Remediation Procedures

Interior Remediation Procedures are as follows:

- It is assumed that, since the buildings will be vacated prior to demolition activities, that all moveable equipment will have been removed prior to the performance of any abatement activities and that the work space shall be free and clear of any obstructions and no materials requiring additional protection will be present
- Any openings between the Remediation Area and the non-remediation areas, including the outside of the building, shall be sealed off with critical barriers

consisting of a minimum of one (1) layer of six (6) mil polyethylene sheeting securing the edges with tape.

- A Negative Pressure Enclosure (NPE) shall be constructed around the work area by covering of floor and wall surfaces with 2 layers of 6 mil polyethylene sheeting sealed with tape. Polyethylene shall be applied alternately to floors and walls.
- The Contractor shall create a negative pressure differential in the range of 0.02 to 0.04 inches of water column between the Remediation Area and surrounding areas by the use of acceptable HEPA-filtered negative air pressure equipment. No air movement system or air filtering equipment shall discharge unfiltered air outside the Remediation Area. The contractor shall continually monitor the pressure differential to ensure that the NPE is functioning appropriately and will stop work if the pressure differential is outside acceptable limits. Work will recommence after an acceptable pressure differential has been established.
- The contractor will maintain the NPE throughout the entire removal action and dust levels will be monitored outside the area as described above. Corrective actions as described will also be performed if monitoring indicated that is required.
- Signs shall be posted outside the enclosure to deter unauthorized personnel from entering.
- Removal work practices within the regulated containment shall be implemented which facilitate the removal of the PCB Bulk Product Waste/State Regulated Material and associated building material while also limiting the amount of dust and debris to be generated. Acceptable removal equipment will include pneumatic hammers or other similar equipment. The contractor will remove the designated amount of building material substrate around the PCB Bulk Product Waste/State Regulated Waste.
- All building materials removed during the remediation will be wrapped in poly sheeting and transported to the waste storage area. The poly sheeting will be secured

with tape to ensure that no dust is released during the transport and the contractor will be responsible for the remediation of any new releases caused by spillage.

- Verification sampling will be performed as described below to determine that all building materials classified as PCB Remediation waste have been removed.

3.3.2 Exterior Remediation Procedures

Exterior remediation procedures are as follows:

- During removal of PCB Bulk Product Wastes and associated building material, ground surfaces in the regulated area will be covered with 2 layers of 6 mil polyethylene sheeting to capture/collect any debris generated, and secured to prevent movement. The sheeting will extend a minimum of ten feet beyond the building area to be remediated.
- Any building openings such as windows, doors, vents, etc in the immediate vicinity of the exterior remediation areas will be sealed off with critical barriers consisting of a minimum of one (1) layer of six (6) mil polyethylene sheeting securing the edges with tape.
- An enclosure will be constructed around the work area by covering ground and wall surfaces with 2 layers of 6 mil polyethylene sheeting sealed with tape. Polyethylene will be applied alternately to floors and walls. If needed, a moveable enclosure may also be constructed around a platform on a boom lift or other similar device.
- The Contractor will maintain the enclosure throughout the entire removal action and dust levels will be monitored outside the area as described above. Corrective actions as described will also be performed if monitoring indicates that it is required.
- Signs will be posted outside the enclosure to deter unauthorized personnel from entering.
- Removal work practices within the regulated containment will be implemented which facilitate the removal of the PCB Bulk Product Waste/State Regulated Material and associated building material while also limiting the amount of dust and debris to be generated. Acceptable removal equipment will include pneumatic hammers or other similar equipment. If the Contractor chooses to use grinding or cutting tools without

local HEPA cowled ventilation during the removal they shall be required to establish a Negative Pressure Enclosure. The contractor will remove the designated amount of building material substrate around the PCB Bulk Product Waste/State Regulated Waste.

- All building materials removed during the remediation will be wrapped in poly sheeting and transported to the waste storage area. The poly sheeting will be secured with tape to ensure that no dust is released during the transport and the contractor will be responsible for the remediation of any new releases caused by spillage.
- Verification sampling will be performed as described below to determine that all building materials classified as PCB Remediation Wastes been removed.

3.3.3 Phased Remediation

In instances where PCB Bulk Product and building material cannot be removed prior to performing “clean” demolition the following procedures will be followed, except in the case of soil remediation:

- Verification sampling, at the frequency required shall be performed prior to the removal of clean materials.
- The Contractor will be required to physically delineate PCB Bulk Product Wastes and building material areas, as determined by the verification sampling, on the building with paint or other suitable materials.
- Prior to initiating “clean” demolition activities, the Contractor will seal the caulks classified as PCB Bulk Product Waste and their associated building material as designated in the SIP so as to not create additional releases by disturbing the caulk during the demolition. This seal will consist of tape or taped/glued poly sheeting and the contractor will be required to maintain this seal until these materials are ready to be removed.
- “Clean” demolition activities will be performed to the extent of the delineation performed prior to initiating activities and then the contractor will be required to employ exterior remediation procedures as described above to remove the regulated PCB

wastes.

- Once the regulated PCB wastes have been removed to the extent indicated as being required by the delineation, the contractor will return to employing “clean” methods for demolition.

3.4 Reoccupancy Testing

For interior and exterior containments, the entire area within containment will be HEPA vacuumed to remove dust. The project monitor will then inspect the area to determine that it has been cleaned of all dust generated during the abatement for interior containments, one or two interior wipe samples will be collected from horizontal areas where dust would be expected to accumulate within each containment. For exterior containments, one or two wipe samples will be collected from horizontal building materials that were within the containment to further determine that all potentially contaminated dust has been removed.

For areas that are being renovated, where wipe samples are representative of materials to remain in place, all wipe samples will be required to be $<1.0 \mu\text{g}/100 \text{ cm}^2$. For areas that are being demolished, where wipe samples are representative of materials to be removed and disposed, all wipe samples will be required to be $<1.0 \mu\text{g}/100 \text{ cm}^2$. The actual number of wipe samples performed in the field will depend upon the number of containments established by the Contractor for the abatement actions.

If any of the containment areas fail any of the cleanliness verification procedures, inspection or wipe samples, the Contractor shall be instructed to reclean the area and all inspections and testing will be performed until the area has been cleared for reoccupancy.

3.5 Verification Sampling for Building Materials

Approval of verification sampling for building material removals on a frequency less than that specified in Subpart O is requested for this remediation project. Based on the existing sample data and this SIP for the project, the proposed verification sampling frequency is one sample per every 50 linear feet. All verification samples from porous materials will be collected

from ½” depths following the EPA Region 1 Standard Operating Procedure which is included in Appendix C. Table 4 lists the areas where building material samples will be collected and the estimated number of verification samples to be collected.

Additional details as to sampling protocols are as follows:

- The removal action will include removal of the HVAC intake vents, metal window sill caps and window/door frames intact by cutting or otherwise breaking the supports that fasten them to the building. Following the removal of the HVAC intake vents, metal window sill caps and window/door frames, three inches of brick/mortar and/or concrete will be removed as well.
- At locations where PCB Bulk Product Wastes are bordered on either side by porous materials (e.g. concrete, brick) both sides of the removal action will be treated in the calculation of linear feet for verification sampling. If at all possible, verification samples on either side of the caulked joint will be staggered so as to “spread” the location of the verification samples.
- The removal action will include all porous building materials adjacent to the caulked joint. Thus if porous materials are found behind the PCB Bulk Product Waste (caulk) they will also be removed to a depth of 3 inches and the space behind will also be included separately in the calculation of linear feet for verification sampling.
- “Backing” material may be present behind the building caulks. Any backing material adjacent to the PCB containing caulk and in contact/coated with a porous surface will be removed and disposed with the caulk.
- In the cases where air spaces exist behind PCB Bulk Product Waste (caulk), no building materials will be removed beyond the limit of the air space.

The oversight contractor will collect verification samples at the approved frequency and will be responsible for verifying that sufficient samples have been collected and that the remedial goal has been achieved prior to initiation of “clean” demolition activities. Clean demolition activities will commence after the oversight contractor has determined that remedial requirements have been achieved. In the case where verification samples do not achieve the

remedial goal, the oversight contractor will instruct the remedial contractor to reestablish the appropriate controls and regulated area and to continue the removal of building materials using the removal procedures as stated above.

3.6 Soil/Surface Cover Remediation

Each of the designated soil/surface cover remediation areas is easy to access and there will be no restrictions on the type of equipment employed. An excavator or other similar type of equipment will be used to remove soil/surface cover which will be live loaded into lined rolloff containers or dump trailers for transport to the appropriate disposal facility. Verification samples for soil will be collected as per Subpart O. Following excavation and analyzed in the same manner as previously collected characterization sampling. However, as many as five sample locations may be composited prior to analysis. Any composite samples generated will be from contiguous sample locations on the 1.5 m by 1.5m Subpart O sampling grid. Soil/surface cover samples collected from the base and sidewalls of the excavations will consist of surficial soil, asphalt and concrete. Where contaminated soil/surface cover is in contact with concrete or asphalt to remain, samples of these materials will be collected following the EPA Region 1 SOP for sampling concrete to a depth of ½". Composite samples will be submitted for analysis. Composite samples will consist of equal mass aliquots from contiguous sample locations of the same matrix (e.g., soil samples will only be composited with other soil samples).

All sample compositing activities will be logged such that the date of compositing and the grab samples in the composite is recorded in a permanent manner. All grab samples will be maintained for potential submittal to the analytical laboratory if required.

Soil excavations will be backfilled with certified clean soil meeting the CTDEP Remediation Standards Regulations (RSRs) for the Residential Direct Exposure Criteria (RDEC) and Groundwater Classification A (GA) Pollutant Mobility Criteria (PMC).

3.7 Waste Characterization, Transport, and Disposal

Wastes will be precharacterized to the satisfaction of the selected disposal facility prior to

initiating any remedial activities. All wastes generated during building remediation activities will be shipped for disposal as PCB Bulk Product Waste at a TSCA-permitted facility and no attempt will be made to segregate the removed material.

All wastes generated during soil remediation activities will be shipped for disposal as PCB Remediation Wastes at a concentration less than 50 mg/kg at a facility permitted to receive such waste.

3.8 Equipment Decontamination

All moveable equipment, tools, and sampling equipment which has contacted the PCB Bulk Product or Remediation Wastes will be decontaminated prior to leaving the site. Decontamination procedures will comply with either §761.79(b)(3)(i)(A), §761.79(b)(3)(ii)(A) or §761.79(c)(2).

All decontamination wastes, PPE, and polyethylene that come in contact with PCB Bulk Product or Remediation Wastes will be disposed of as PCB Wastes with concentrations greater than 50 mg/kg. These wastes will be segregated as to matrix, aqueous, non-aqueous liquids, or solid materials (e.g., PPE), and stored in drums or lined containers prior to transport from the site for disposal.

Aqueous and non-aqueous liquids will be tested for PCB content and shipped offsite for disposal at permitted facility to receive such wastes. Solid Wastes will be containerized with the other regulated PCB wastes generated during the remediation project for transport and disposal.

3.9 Notification and Certification

The removal and abatement measures described within this SIP will be initiated after receiving written approval of the plan from EPA. Notification of intent to perform these remedial measures is provided to EPA with this submittal and will also be provided to the CTDEP, HSBC and local officials.

Also enclosed with this submittal in Appendix D, in accordance with EPA 40 CFR 761.61(a)(3), is a written certification from the HSBC indicating the location of all reports detailing sample collection and analysis procedures used to assess or characterize the PCB contamination for

this SIP are available for EPA inspection.

4.0 DOCUMENTATION

Documentation of the field activities will be performed on a daily basis by the contractor and remediation monitor during the performance of the remediation and will be summarized at the conclusion of the remediation in a Remedial Action Report (RAR).

4.1 Field Notes

The field inspector will maintain a daily log of on-site activities. That log will include, but not be limited to the following:

- Daily health and safety meetings
- Personnel and equipment on site
- Field procedures and observations
- Remediation progress and extents
- Sample locations, selection criteria, samples collected, analyses performed, sample handling
- Telephone or other instructions
- Equipment decontamination
- Building structure substrate /soil verification testing
- Waste transporter information

4.2 Photographs

Photographs will be taken of representative activities, such as remediation, sample locations, and soil excavation. The final extents of the remediation/excavations will also be photographed. Copies of selected photographs will be included in the RAR.

4.3 Survey

The horizontal extents of the soil excavations will be documented by reference to existing fixed site features such as buildings or fence lines. Vertical extents will be measured from the surrounding ground surface. The RAR will include documentation of the extent and depth of the soil excavation.

4.4 Transport and Treatment/Disposal Certifications

Manifests and/or Bills of Lading for the transportation, treatment and disposal of waste materials and certifications of the treatment or disposal of the wastes, if necessary, will be obtained from the transporter and from the treatment/disposal facility. Copies of these forms will be included in the RAR.

4.5 Report

The RAR will be prepared upon receipt of all analytical data confirming that the removal action was complete and receipt of certifications of treatment/disposal from the treatment/disposal facility. The RAR will include the following.

- Site description
- A description of field procedures
- Verification sample locations and analytical results
- A photographic record of the remediation, excavations and backfilling
- Figures showing the extent of excavations and restoration
- Waste characterization sample data
- Waste transport and treatment disposal information
- Copies of waste manifests and bills of lading

4.6 Recordkeeping

All records and documents required by 40 CFR Part 761, including all those records required under Subpart K, will be prepared for and maintained by the HSBC. The records shall be maintained in a centralized location for a minimum of three years and will be available for inspection by representatives of EPA if required.

TABLES

Table 1
Bulk Material Sample Analytical Results
International Baccalaureate School
Hartford, CT

Bulk Material ID	Date Sampled	Date Analyzed	Total PCBs (mg/kg)	Material Classification	Aroclor Identified
Exterior Door Window Glazing Type 2	1/26/2011	2/8/2011	0.9	Excluded PCB Product	1254
Exterior Window Glazing	1/26/2011	2/8/2011	35	Excluded PCB Product/State Regulated	1248 & 1254
Exterior Door Window Glazing Type 1	1/26/2011	2/8/2011	2.1	Excluded PCB Product/State Regulated	1254
Exterior Door Window Glazing Type 3	1/26/2011	2/8/2011	13	Excluded PCB Product/State Regulated	1254
Exterior Window Caulk	1/26/2011	2/8/2011	17	Excluded PCB Product/State Regulated	1254
Interior Caulk Type 1(C1 - on Countertops)	1/26/2011	2/8/2011	2.2	Excluded PCB Product/State Regulated	1254
Interior Window Glazing Type 2	1/26/2011	2/8/2011	1.1	Excluded PCB Product/State Regulated	1254
Interior Window Glazing Type 1	1/26/2011	2/8/2011	29	Excluded PCB Product/State Regulated	1254
Light gray caulk	3/15/2011	3/24/2011	4.03	Excluded PCB Product/State Regulated	1254
Dark gray caulk	3/15/2011	3/24/2011	1.1	Excluded PCB Product/State Regulated	1254
Red caulk	3/15/2011	3/24/2011	1.03	Excluded PCB Product/State Regulated	1254
Exterior Expansion Joint Caulk	1/26/2011	2/8/2011	100,000	PCB Bulk Product Waste	1254
Exterior Window Sill Cap Caulk	1/26/2011	2/8/2011	56,000	PCB Bulk Product Waste	1254
Exterior Door Caulk	2/17/2011	2/23/2011	46,000	PCB Bulk Product Waste	1254

Table 2
Building Substrate Sample Analytical Results
International Baccalaureate School
Hartford, CT

Sample ID	PCB Building Material	Substrate Description	Distance From Caulk (inches)	Date Sampled	Date Analyzed	Total PCBs	Material Classification
18-B0	Exterior Door Caulk	Brick	Zero inches	3/18/2011	3/24/2011	8.3	PCB Remediation Waste
22-B0	Exterior Door Caulk	Brick	Zero inches	3/18/2011	3/24/2011	1.91	PCB Remediation Waste
32-B0	Exterior Door Caulk	Brick	Zero inches	3/18/2011	3/24/2011	1.9	PCB Remediation Waste
36-B0	Exterior Door Caulk	Brick	Zero inches	3/18/2011	3/24/2011	2.18	PCB Remediation Waste
17-B3	Exterior Door Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.072	Unregulated
21-B3	Exterior Door Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.422	Unregulated
31-B3	Exterior Door Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.262	Unregulated
35-B3	Exterior Door Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.0847	Unregulated
10DC	Exterior Door Caulk	Brick	Six inches	3/1/2011	3/9/2011	BRL<0.062	Unregulated

BRL= Below Reportable Limit

Note: 0" samples collected at the point of contact between Porous substrate material and regulated building material (caulk).

Table 2
Building Substrate Sample Analytical Results
International Baccalaureate School
Hartford, CT

Sample ID	PCB Building Material	Substrate Description	Distance From Caulk (inches)	Date Sampled	Date Analyzed	Total PCBs	Material Classification
4DC	Exterior Door Caulk	Brick	Six inches	3/1/2011	3/9/2011	BRL<0.059	Unregulated
3DC	Exterior Door Caulk	Brick	Twelve inches	3/1/2011	3/9/2011	BRL<0.067	Unregulated
9DC	Exterior Door Caulk	Brick	Twelve inches	3/1/2011	3/9/2011	BRL<0.060	Unregulated
14-B0	Exterior Expansion Joint Caulk	Brick	Zero inches	3/18/2011	3/24/2011	40.3	PCB Remediation Waste
24-B0	Exterior Expansion Joint Caulk	Brick	Zero inches	3/18/2011	3/24/2011	128	PCB Remediation Waste
26-B0	Exterior Expansion Joint Caulk	Brick	Zero inches	3/18/2011	3/24/2011	27.8	PCB Remediation Waste
30-B0	Exterior Expansion Joint Caulk	Brick	Zero inches	3/18/2011	3/24/2011	2.81	PCB Remediation Waste
13-B3	Exterior Expansion Joint Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.661	Unregulated
23-B3	Exterior Expansion Joint Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.315	Unregulated

BRL= Below Reportable Limit

Note: 0" samples collected at the point of contact between Porous substrate material and regulated building material (caulk).

Table 2
Building Substrate Sample Analytical Results
International Baccalaureate School
Hartford, CT

Sample ID	PCB Building Material	Substrate Description	Distance From Caulk (inches)	Date Sampled	Date Analyzed	Total PCBs	Material Classification
25-B3	Exterior Expansion Joint Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.409	Unregulated
29-B3	Exterior Expansion Joint Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.291	Unregulated
2EJC	Exterior Expansion Joint Caulk	Brick	Six inches	3/1/2011	3/9/2011	BRL<0.064	Unregulated
8EJC	Exterior Expansion Joint Caulk	Brick	Six inches	3/1/2011	3/9/2011	BRL<0.059	Unregulated
1EJC	Exterior Expansion Joint Caulk	Brick	Twelve inches	3/1/2011	3/9/2011	BRL <0.067	Unregulated
7EJC	Exterior Expansion Joint Caulk	Brick	Twelve inches	3/1/2011	3/9/2011	BRL<0.056	Unregulated
38-C0	Exterior Window Sill Cap Caulk	Concrete	Zero inches	3/18/2011	3/24/2011	8.77	PCB Remediation Waste
37-C3	Exterior Window Sill Cap Caulk	Concrete	Three inches	3/18/2011	3/24/2011	0.305	Unregulated
6EPC	Exterior Window Sill Cap Caulk	Concrete	Six inches	3/1/2011	3/9/2011	0.293	Unregulated

BRL= Below Reportable Limit

Note: 0" samples collected at the point of contact between Porous substrate material and regulated building material (caulk).

Table 2
Building Substrate Sample Analytical Results
International Baccalaureate School
Hartford, CT

Sample ID	PCB Building Material	Substrate Description	Distance From Caulk (inches)	Date Sampled	Date Analyzed	Total PCBs	Material Classification
5EPC	Exterior Window Sill Cap Caulk	Concrete	Twelve inches	3/1/2011	3/9/2011	BRL<0.065	Unregulated
15-B0	Exterior Window Sill Cap Caulk	Brick	Zero inches	3/18/2011	3/24/2011	10.3	PCB Remediation Waste
20-B0	Exterior Window Sill Cap Caulk	Brick	Zero inches	3/18/2011	3/24/2011	0.583	Unregulated
28-B0	Exterior Window Sill Cap Caulk	Brick	Zero inches	3/18/2011	3/24/2011	1.47	PCB Remediation Waste
34-B0	Exterior Window Sill Cap Caulk	Brick	Zero inches	3/18/2011	3/24/2011	1.34	PCB Remediation Waste
16-B3	Exterior Window Sill Cap Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.08	Unregulated
19-B3	Exterior Window Sill Cap Caulk	Brick	Three inches	3/18/2011	3/24/2011	BRL<0.059	Unregulated
27-B3	Exterior Window Sill Cap Caulk	Brick	Three inches	3/18/2011	3/24/2011	0.065	Unregulated
33-B3	Exterior Window Sill Cap Caulk	Brick	Three inches	3/18/2011	3/24/2011	BRL<0.053	Unregulated

BRL= Below Reportable Limit

Note: 0" samples collected at the point of contact between Porous substrate material and regulated building material (caulk).

Table 2
Building Substrate Sample Analytical Results
International Baccalaureate School
Hartford, CT

Sample ID	PCB Building Material	Substrate Description	Distance From Caulk (inches)	Date Sampled	Date Analyzed	Total PCBs	Material Classification
12EPC	Exterior Window Sill Cap Caulk	Brick	Six inches	3/1/2011	3/9/2011	0.076	Unregulated
11EPC	Exterior Window Sill Cap Caulk	Brick	Twelve inches	3/1/2011	3/9/2011	0.071	Unregulated

BRL= Below Reportable Limit

Note: 0" samples collected at the point of contact between Porous substrate material and regulated building material (caulk).

Table 3

Surface Cover Sample Analytical Results

International Baccalaureate School

Hartford, CT

Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
01-SOIL	Soil	Grab	3/15/2011	3/24/2011	0.697	Unregulated
02-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.062	Unregulated
03-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.077	Unregulated
04-SC	Asphalt	Grab	3/15/2011	3/24/2011	2.73	PCB Remediation Waste
05-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.562	Unregulated
06-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.059	Unregulated
07-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.062	Unregulated
08-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.327	Unregulated
09-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.131	Unregulated
10-SC	Asphalt	Grab	3/15/2011	3/24/2011	BRL<0.558	Unregulated
11-SC	Asphalt	Grab	3/15/2011	3/24/2011	BRL<0.539	Unregulated
12-SC	Concrete	Grab	3/15/2011	3/24/2011	0.136	Unregulated
13-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.754	Unregulated
14-SC	Asphalt	Grab	3/15/2011	3/24/2011	BRL<0.560	Unregulated
15-SC	Concrete	Grab	3/15/2011	3/24/2011	0.163	Unregulated

Table 3						
Surface Cover Sample Analytical Results						
International Baccalaureate School						
Hartford, CT						
Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
16-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.069	Unregulated
17-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.068	Unregulated
18-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.069	Unregulated
19-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.066	Unregulated
20-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.068	Unregulated
21-SC	Concrete	Grab	3/15/2011	3/24/2011	0.082	Unregulated
22-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.069	Unregulated
23-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.068	Unregulated
24-SC	Soil	Grab	3/15/2011	3/24/2011	0.069	Unregulated
25-SC	Asphalt	Grab	3/15/2011	3/24/2011	BRL<0.192	Unregulated
26-SC	Asphalt	Grab	3/15/2011	3/24/2011	BRL<0.067	Unregulated
27-SC	Soil	Grab	3/15/2011	3/24/2011	0.06	Unregulated
28-SC	Soil	Grab	3/15/2011	3/24/2011	0.092	Unregulated
29-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.069	Unregulated
30-SC	Concrete	Grab	3/15/2011	3/24/2011	0.126	Unregulated

Table 3

Surface Cover Sample Analytical Results

International Baccalaureate School

Hartford, CT

Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
31-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.055	Unregulated
32-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.054	Unregulated
33-SC	Concrete	Grab	3/15/2011	3/24/2011	0.078	Unregulated
34-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.059	Unregulated
35-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.062	Unregulated
36-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.062	Unregulated
37-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.060	Unregulated
38-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.063	Unregulated
39-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.056	Unregulated
40-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.244	Unregulated
41-SC	Asphalt	Grab	3/15/2011	3/24/2011	2.26	PCB Remediation Waste
42-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.657	Unregulated
43-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.606	Unregulated
44-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.653	Unregulated
45-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.299	Unregulated

Table 3

Surface Cover Sample Analytical Results

International Baccalaureate School

Hartford, CT

Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
46-SC	Asphalt	Grab	3/15/2011	3/24/2011	1.52	PCB Remediation Waste
47-SC	Asphalt	Grab	3/15/2011	3/24/2011	0.327	Unregulated
48-SC	Concrete	Grab	3/15/2011	3/24/2011	0.085	Unregulated
49-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.063	Unregulated
50-SC	Concrete	Grab	3/15/2011	3/24/2011	BRL<0.066	Unregulated
50A-SC	Concrete	Grab	3/18/2011	3/24/2011	0.0922	Unregulated
51-SC	Asphalt	Grab	3/18/2011	3/24/2011	4.01	PCB Remediation Waste
52-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.836	Unregulated
53-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.479	Unregulated
54-SC	Asphalt	Grab	3/18/2011	3/24/2011	2.59	PCB Remediation Waste
55-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.747	Unregulated
56-SC	Asphalt	Grab	3/18/2011	3/24/2011	1.07	PCB Remediation Waste
57-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.979	Unregulated
58-SOIL	Soil	Grab	3/18/2011	3/24/2011	0.313	Unregulated
59-SOIL	Soil	Grab	3/18/2011	3/24/2011	1.59	Regulated

Table 3						
Surface Cover Sample Analytical Results						
International Baccalaureate School						
Hartford, CT						
Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
60-SOIL	Soil	Grab	3/18/2011	3/24/2011	0.153	Unregulated
61-SOIL	Soil	Grab	3/18/2011	3/24/2011	0.275	Unregulated
62-SOIL	Soil	Grab	3/18/2011	3/24/2011	2.22	PCB Remediation Waste
63-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.065	Unregulated
64-SC	Concrete	Grab	3/18/2011	3/24/2011	0.917	Unregulated
65-SC	Concrete	Grab	3/18/2011	3/24/2011	1.00	PCB Remediation Waste
66-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.068	Unregulated
67-SC	Concrete	Grab	3/18/2011	3/24/2011	0.507	Unregulated
68-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.064	Unregulated
69-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.059	Unregulated
70-SC	Concrete	Grab	3/18/2011	3/24/2011	0.149	Unregulated
71-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.061	Unregulated
72-SC	Concrete	Grab	3/18/2011	3/24/2011	0.094	Unregulated
73-SC	Concrete	Grab	3/18/2011	3/24/2011	0.105	Unregulated
74-SC	Concrete	Grab	3/18/2011	3/24/2011	0.565	Unregulated

Table 3

Surface Cover Sample Analytical Results

International Baccalaureate School

Hartford, CT

Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
75-SC	Concrete	Grab	3/18/2011	3/24/2011	0.235	Unregulated
76-SC	Concrete	Grab	3/18/2011	3/24/2011	0.07	Unregulated
77-SC	Concrete	Grab	3/18/2011	3/24/2011	1.39	PCB Remediation Waste
78-SC	Concrete	Grab	3/18/2011	3/24/2011	0.076	Unregulated
79-SC	Concrete	Grab	3/18/2011	3/24/2011	8.78	PCB Remediation Waste
80-SC	Concrete	Grab	3/18/2011	3/24/2011	0.076	Unregulated
81-SC	Concrete	Grab	3/18/2011	3/24/2011	0.091	Unregulated
82-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.061	Unregulated
83-SC	Concrete	Grab	3/18/2011	3/24/2011	0.087	Unregulated
84-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.059	Unregulated
85-SC	Concrete	Grab	3/18/2011	3/24/2011	0.484	Unregulated
86-SC	Concrete	Grab	3/18/2011	3/24/2011	0.553	Unregulated
87-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.061	Unregulated
88-SC	Concrete	Grab	3/18/2011	3/24/2011	0.639	Unregulated
89-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.062	Unregulated

Table 3						
Surface Cover Sample Analytical Results						
International Baccalaureate School						
Hartford, CT						
Sample ID	Sample Substrate	Sample Type	Date Collected	Date Analyzed	Total PCBs (mg/kg)	Material Classification
90-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.066	Unregulated
91-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.061	Unregulated
92-SC	Concrete	Grab	3/18/2011	3/24/2011	0.332	Unregulated
93-SC	Concrete	Grab	3/18/2011	3/24/2011	BRL<0.061	Unregulated
94-SC	Concrete	Grab	3/18/2011	3/24/2011	0.421	Unregulated
95-SC	Concrete	Grab	3/18/2011	3/24/2011	0.156	Unregulated
96-SC	Concrete	Grab	3/18/2011	3/24/2011	0.067	Unregulated
97-SOIL	Soil	Grab	3/18/2011	3/24/2011	1.42	PCB Remediation Waste
98-SOIL	Soil	Grab	3/18/2011	3/24/2011	0.177	Unregulated
99-SOIL	Soil	Grab	3/18/2011	3/24/2011	2.2	PCB Remediation Waste
100-SOIL	Soil	Grab	3/18/2011	3/24/2011	0.243	Unregulated
101-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.992	Unregulated
102-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.499	Unregulated
103-SC	Asphalt	Grab	3/18/2011	3/24/2011	0.171	Unregulated

Table 4

Quantification of Materials to be Abated and Verification Sample Estimate

International Baccalaureate School

Hartford, Connecticut

PCB Bulk Product Waste	Locations	Comments	Verification Samples
Exterior Expansion Joint Caulk	Located between joints in the exterior brick façade, along the vertical sides of the windows and along the horizontal length of the mechanical room intake vents	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 1840 LF of newly exposed surfaces.	1 sample per 50 LF of newly exposed surfaces. 37 verification samples to be collected.
Exterior Window Sill Cap Caulk	Located below the metal window sill cap where it meets the brick façade on the second and third floors and where it meets concrete on the first floor	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 1012 LF of newly exposed surfaces. Metal window sill cap will be disposed of as PCB waste.	1 sample per 50 LF of newly exposed surfaces. 20 verification samples to be collected.
Exterior Door Caulk	Located along the metal door frames where it meets the brick façade.	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 196 LF of newly exposed surfaces. Door frame will be disposed of as PCB waste.	1 sample per 50 LF of newly exposed surfaces. 4 verification samples to be collected.
State Regulated PCB-Material	Locations	Comments	Verification Samples
Exterior Window Glazing	Located throughout all exterior windows.	Glazing in contact with non-porous glass window and non-porous metal window sash. Whole window will be disposed of as PCB waste.	None
Exterior Door Window Glazing Type 1	Located throughout the exterior door windows.	Caulk in contact with porous brick and non-porous metal doors. Whole doors will be disposed of as PCB waste.	None

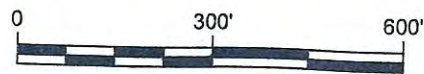
Table 4

Quantification of Materials to be Abated and Verification Sample Estimate

International Baccalaureate School

Hartford, Connecticut

Exterior Door Window Glazing Type 3	Located on two out of twenty-eight exterior door windows	Glazing in contact with non-porous glass window and non-porous metal door. Whole door will be disposed of as PCB waste.	None	
Exterior Window Caulk	Located throughout all exterior windows.	Caulk in contact with porous brick and non-porous non-porous metal window frames. Whole windows will be disposed of as PCB waste.	None	
Interior Caulk Type 1(C1 - on Countertops)	Located on Formica countertops where the counter and backsplash meet in Rooms 103, 105, 110, 113, 115, 116, 118, 211 A, 211B, 308, 311A, 311B, 325.	Caulk in contact with non-porous Formica counter & backsplash surface at point of contact. Whole counter will be disposed of as PCB waste.	None	
Interior Window Glazing Type 2	Located throughout the interior windows in Rooms 102, 106, 112, 113, 209, 210, 223, 224, 309, 310, 323, 324, 2nd & 3rd Floor Administrative Suites.	Glazing in contact with glass window and metal window sash. Whole window will be disposed of as PCB waste.	None	
Interior Window Glazing Type 1	Located on the interior side of all the exterior windows.	Glazing in contact with glass window and metal window sash. Whole window will be disposed of as PCB waste.	None	
Light gray caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None	
Dark gray caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None	
Red caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None	



GRAPHIC SCALE

J:\CAD\181125\1000\
FIG-1.dwg Layout:Layout1 May 02, 2011-10:35AM Raloma



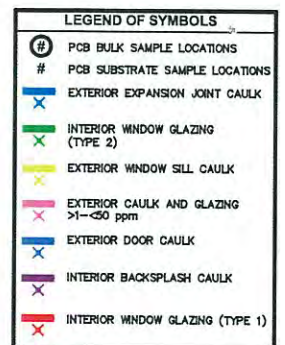
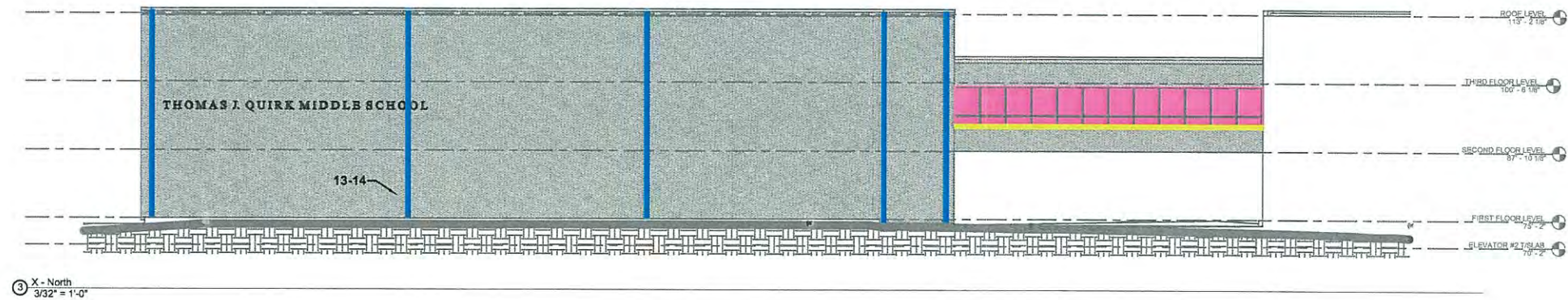
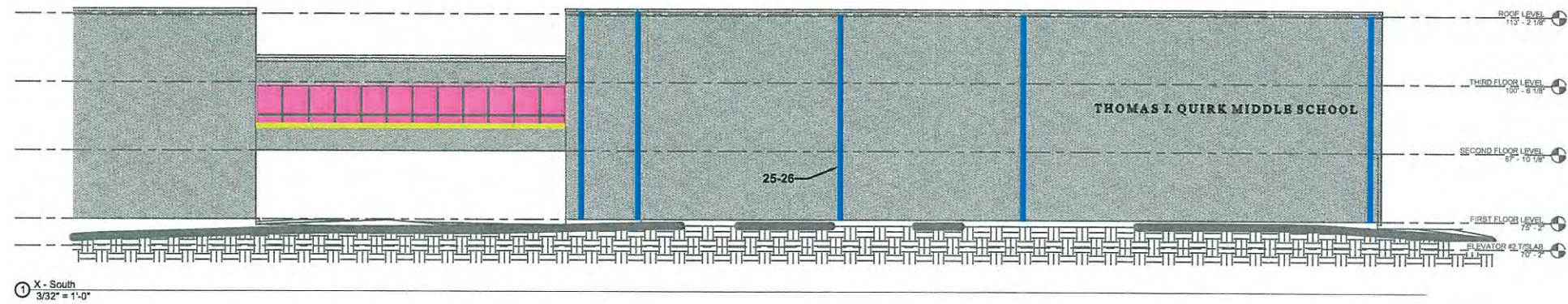
21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

International Baccalaureate School
85 Edwards Street
Hartford, Conn.

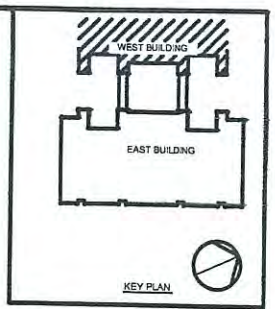
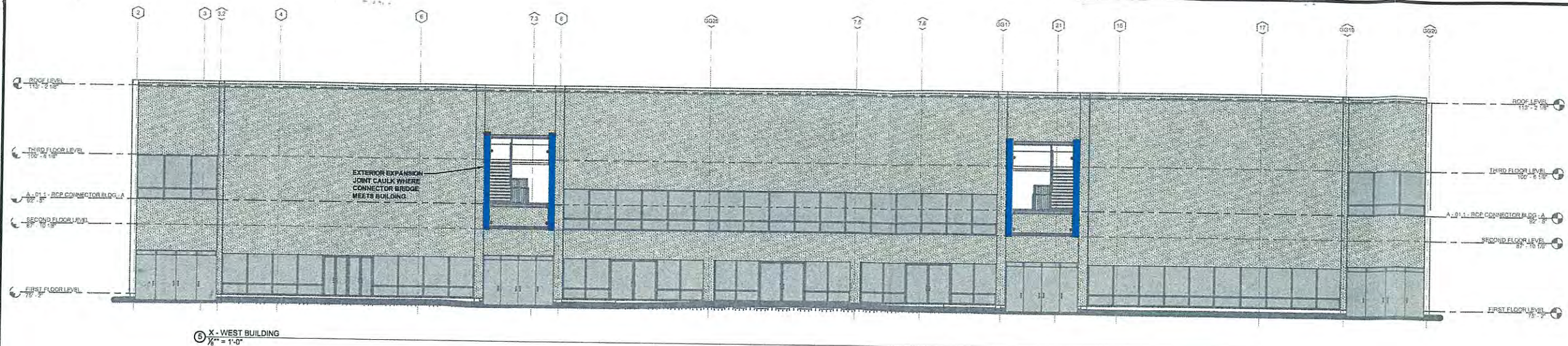
FIGURE 1
SITE AERIAL

Date: 04/26/11

Project No. 181125.00000.01000



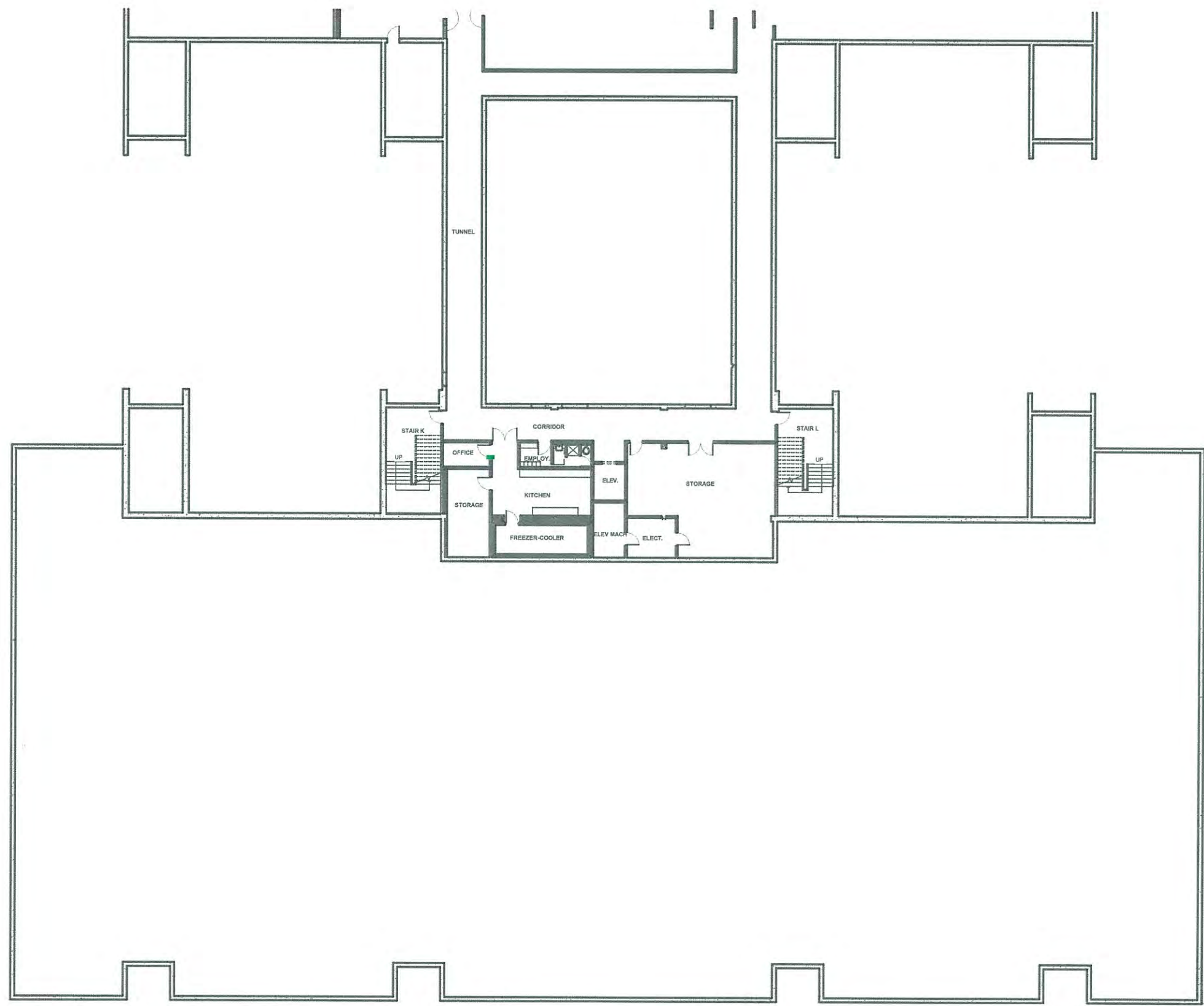
JACOBI 181120/1000
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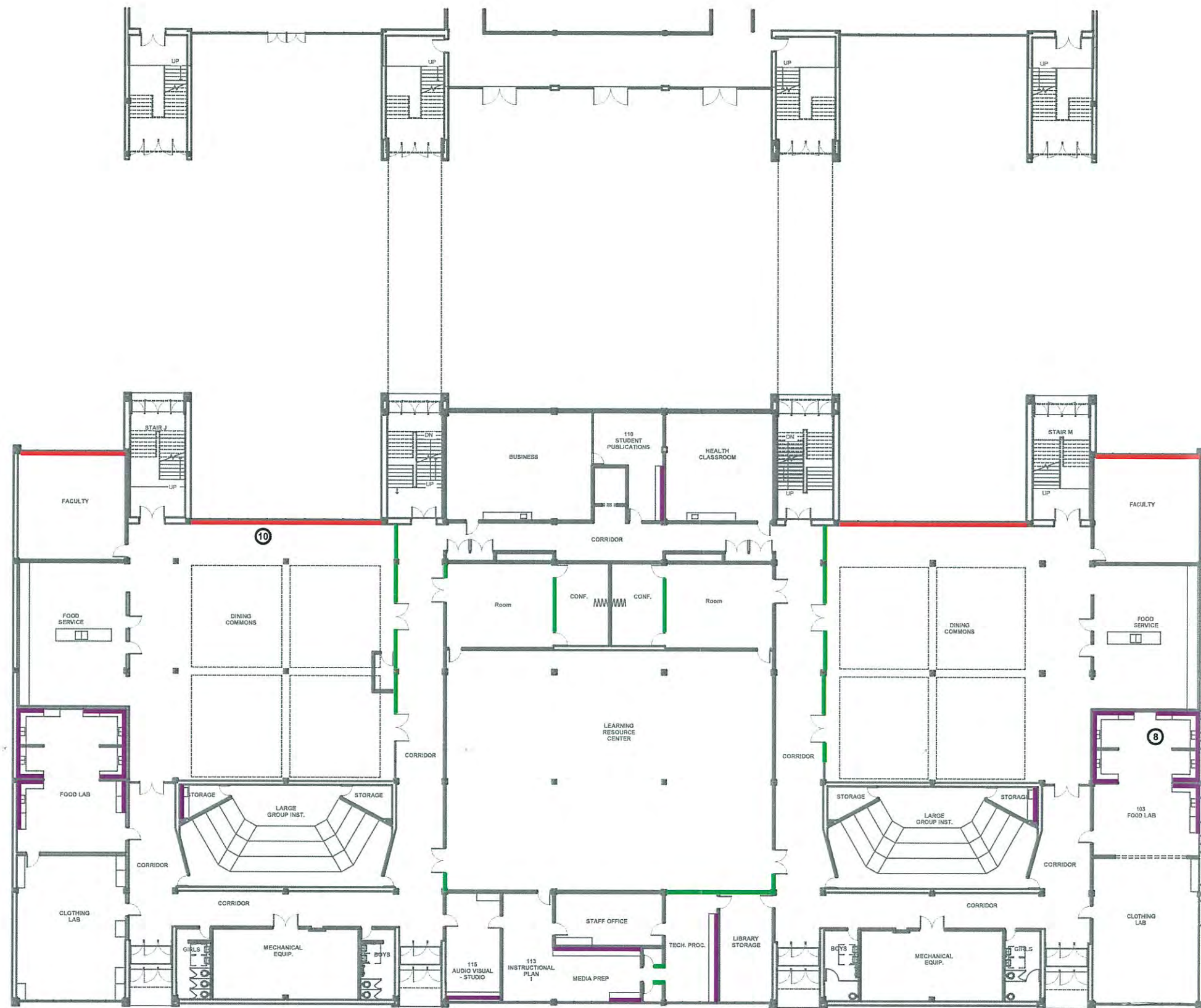
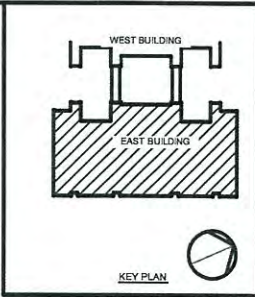
⑤ X - WEST BUILDING
1/8" = 1'-0"

LEGEND OF SYMBOLS	
⑤	PCB BULK SAMPLE LOCATIONS
#	PCB SUBSTRATE SAMPLE LOCATIONS
✕	EXTERIOR EXPANSION JOINT CAULK
✕	INTERIOR WINDOW GLAZING (TYPE 2)
✕	EXTERIOR WINDOW SILL CAULK
✕	EXTERIOR CAULK AND GLAZING >1-50 ppm
✕	EXTERIOR DOOR CAULK
✕	INTERIOR BACKSPASH CAULK
✕	INTERIOR WINDOW GLAZING (TYPE 1)

NO.	REVISIONS	DATE	APPROVAL
International Baccalaureate School 85 Edwards Street Hartford, CT 06120			
FIGURE 2A EXTERIOR ELEVATIONS SITE PLAN WITH CAULK & GLAZING LOCATIONS, BULK SAMPLE LOCATIONS AND SUBSTRATE SAMPLE LOCATIONS			
CTRC 21 Griffin Road North Windsor, CT 06095 (860) 296-9802		DESIGN: EP DRAWN: REA CHECKED: EP SCALE: 1/8"=1'-0" PROJECT: 00100-00000-001000 DRAWING:	04/28/11 04/28/11 04/28/11

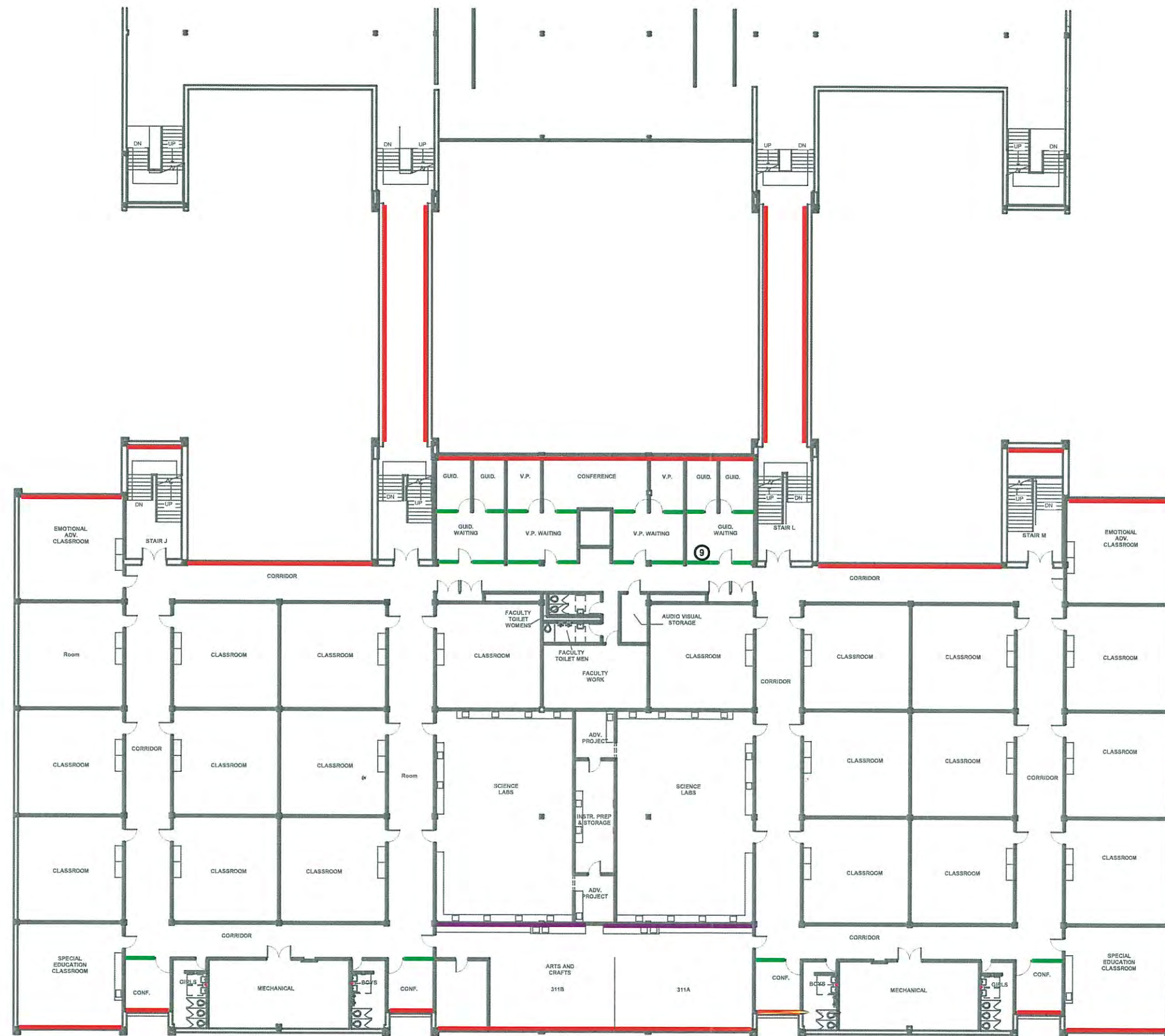



NO.		REVISIONS		DATE APPROVAL	
International Baccalaureate School 85 Edwards Street Hartford, CT 06120				 21 Geth Road North Windsor, CT 06095 (860) 258-9602	
FIGURE 3A SITE PLANS WITH CAULK & GLAZING LOCATIONS AND BULK SAMPLE LOCATIONS				DESIGN: JP 04/15/71 DRAWING: REA 04/15/71 CHECKED: EP 04/15/71 SCALE: 3/32"=1'-0" PROJECT: 1811S-00000-00100 DRAWING:	
				FIG-3A	

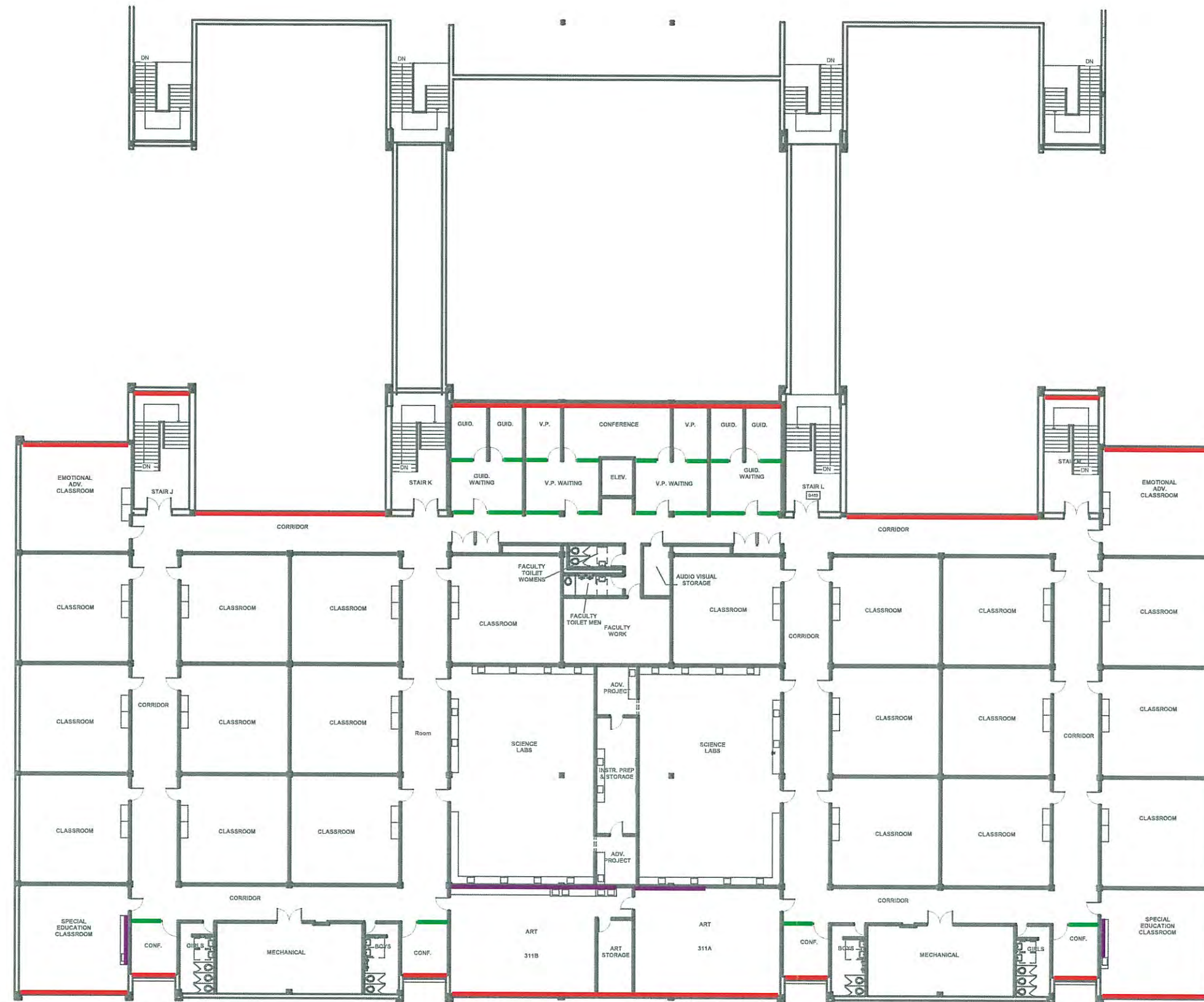









LEGEND OF SYMBOLS	
#	PCB BULK SAMPLE LOCATIONS
#	PCB SUBSTRATE SAMPLE LOCATIONS
✕	EXTERIOR EXPANSION JOINT CAULK
✕	INTERIOR WINDOW GLAZING (TYPE 2)
✕	EXTERIOR WINDOW SILL CAULK
✕	EXTERIOR CAULK AND GLAZING >1-50 ppm
✕	EXTERIOR DOOR CAULK
✕	INTERIOR BACKSPLASH CAULK
✕	INTERIOR WINDOW GLAZING (TYPE 1)


REVISIONS		DATE	APPROVAL
International Baccalaureate School 85 Edwards Street Hartford, CT 06120			
FIGURE 3B SITE PLANS WITH CAULK & GLAZING LOCATIONS AND BULK SAMPLE LOCATIONS			
DESIGN: JP 04/15/11			
DRAWN: REA 04/15/11			
CHECKED: EP 04/15/11			
SCALE: 3/32"=1'-0"			
PROJECT: 181125-000000-00000			
DRAWING			
FIG-3B			

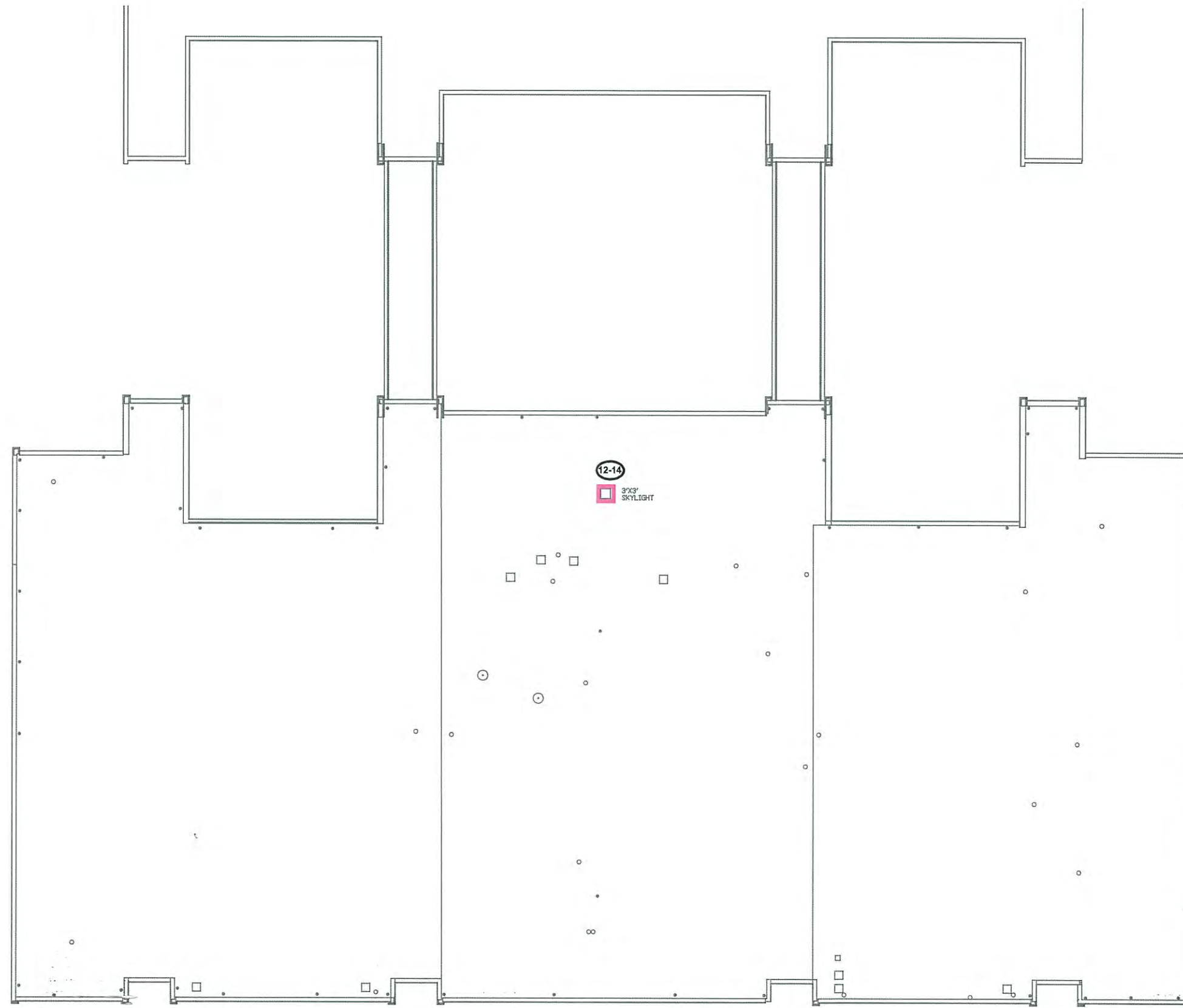



NEL	REVISIONS	DATE	APPROVAL																		
International Baccalaureate School 85 Edwards Street Hartford, CT 06120		 21 Griffin Road North Windsor, CT 06095 (860) 239-9692																			
FIGURE 3C SITE PLANS WITH CAULK & GLAZING LOCATIONS AND BULK SAMPLE LOCATIONS		<table><tr><td>DESIGN</td><td>JP</td><td>04/15/11</td></tr><tr><td>DRAWN</td><td>REA</td><td>04/15/11</td></tr><tr><td>CHECKED</td><td>JP</td><td>04/15/11</td></tr><tr><td>SCALED</td><td>3/15/11</td><td>JP</td></tr><tr><td colspan="3">PROJECT #1000-0000-0000</td></tr><tr><td colspan="3">DRAWING</td></tr></table> FIG-3C		DESIGN	JP	04/15/11	DRAWN	REA	04/15/11	CHECKED	JP	04/15/11	SCALED	3/15/11	JP	PROJECT #1000-0000-0000			DRAWING		
DESIGN	JP	04/15/11																			
DRAWN	REA	04/15/11																			
CHECKED	JP	04/15/11																			
SCALED	3/15/11	JP																			
PROJECT #1000-0000-0000																					
DRAWING																					

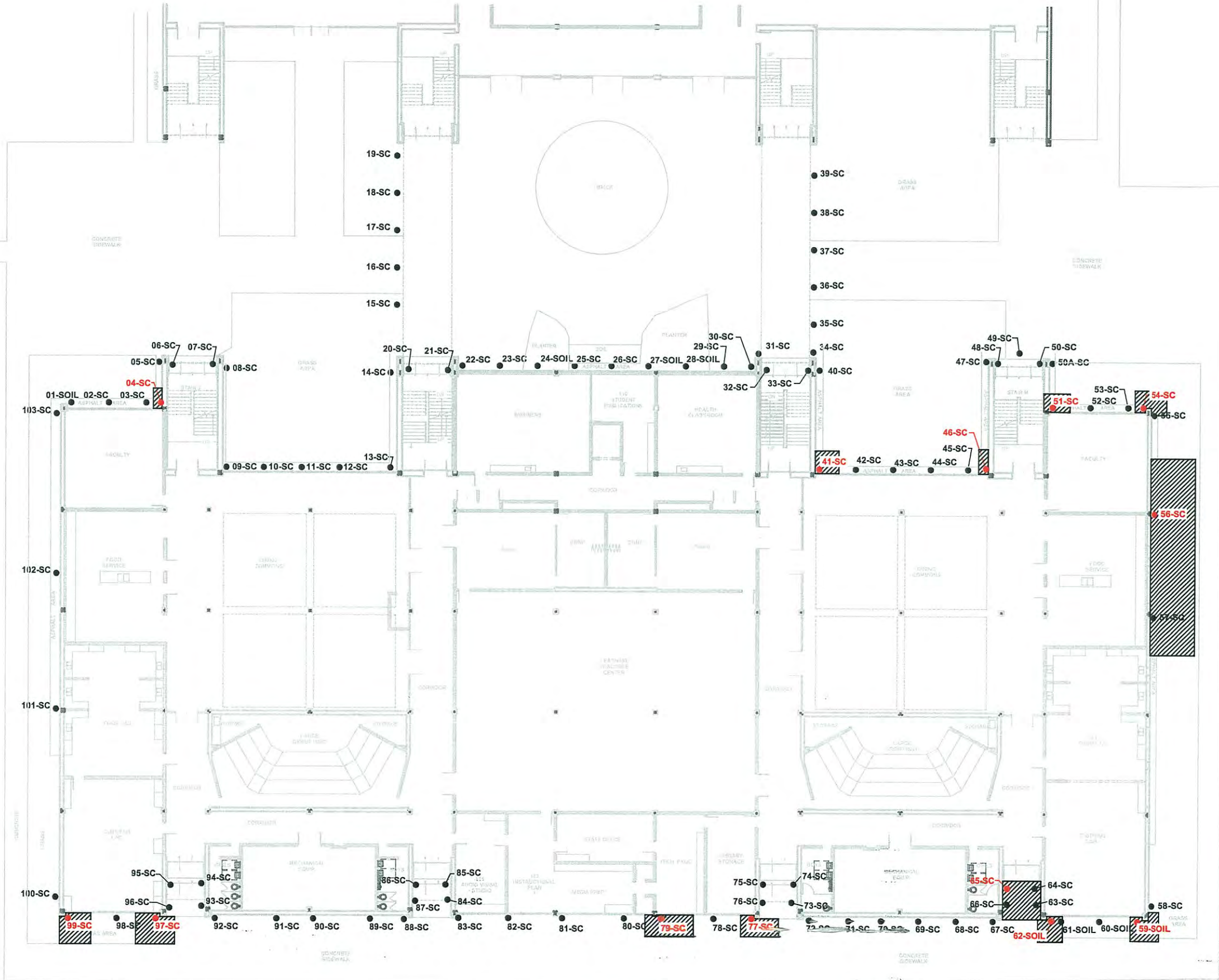



LEGEND OF SYMBOLS	
#	PCB BULK SAMPLE LOCATIONS
#	PCB SUBSTRATE SAMPLE LOCATIONS
	EXTERIOR EXPANSION JOINT CAULK
	INTERIOR WINDOW GLAZING (TYPE 2)
	EXTERIOR WINDOW SILL CAULK
	EXTERIOR CAULK AND GLAZING >1-≤90 ppm
	EXTERIOR DOOR CAULK
	INTERIOR BACKSPLASH CAULK
	INTERIOR WINDOW GLAZING (TYPE 1)

HEL	REVISIONS	DATE	APPROVAL
International Baccalaureate School 85 Edwards Street Hartford, CT 06120		 21 Griffin Road North Windsor, CT 06095 (860) 298-0952	
FIGURE 3D SITE PLANS WITH CAULK & GLAZING LOCATIONS AND BULK SAMPLE LOCATIONS		DESIGN <input checked="" type="checkbox"/> 04/15/11 DRAWN <input checked="" type="checkbox"/> 04/15/11 CHECKED <input checked="" type="checkbox"/> 04/15/11 SCALE 3/8"=1'-0" PROJECT #BUS-00000-00000 DRAWING#	
		FIG-3D	



NO.	REVISIONS	DATE	APPROVAL
International Baccalaureate School 85 Edwards Street Hartford, CT 06120		 21 Duffin Road North Windsor, CT 06095 (860) 298-0022	
FIGURE 3E SITE PLANS WITH CAULK & GLAZING LOCATIONS AND BULK SAMPLE LOCATIONS		DESIGN	UP 04/15/11
		DRAWN	REA 04/15/11
		CHECKED	UP 04/15/11
		SCALE	3/8"=1'-0"
		PROJECT	18000-0000-00000
		DRAWING	
		FIG-3E	



NO.	REVISIONS	DATE	APPROVED
<p>International Baccalaureate School 85 Edwards Street Hartford, CT 06120</p>		 21 Griffin Road North Windsor, CT 06095 (860) 298-8892	
<p>FIGURE 4 SITE PLANS WITH SURFACE COVER SERIAL SAMPLE LOCATIONS</p>		<p>DESIGN: JF 04/15/11 DRAWN: EA 04/15/11 CHECKED: EA 04/15/11 SCALE: 3/32"=1'-0" PROJECT: 1103-00000-00000</p>	
		FIG-4	

APPENDIX A

Analytical Data Reports



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Jennifer Peshka
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

PCB
Bulks

Analytical Report

CET # 11020047

Report Date: February 15, 2011
Client Project: Quirk Middle School, Hartford
Client Project #: 181125.1000.0000

Connecticut Laboratory Certification PH 0116
Massachusetts Laboratory Certification M-CT903



1 of 4

Rhode Island Certification 199
Florida Laboratory Certification E871064

SAMPLE SUMMARY:

This report contains analytical data associated with the following samples only:

CETID	Client Sample ID	Matrix	Collection Date	Collection Time	Receipt Date
AE62319	1	Solid	1/26/2011	10:15	02/04/2011
AE62320	2	Solid	1/26/2011	9:30	02/04/2011
AE62321	3	Solid	1/26/2011	12:45	02/04/2011
AE62322	4	Solid	1/26/2011	13:40	02/04/2011
AE62323	5	Solid	1/26/2011	10:10	02/04/2011
AE62324	6	Solid	1/26/2011	9:02	02/04/2011
AE62325	7	Solid	1/26/2011	9:10	02/04/2011
AE62326	8	Solid	1/26/2011	14:50	02/04/2011
AE62327	9	Solid	1/26/2011	14:50	02/04/2011
AE62328	10	Solid	1/28/2011	15:15	02/04/2011

Sample temperature upon receipt was 4.0 degrees C

PREP ANALYSIS:

Soxhlet Extraction [EPA 3540C]

Client ID	1	2	3	4	5
CET ID	AE62319	AE62320	AE62321	AE62322	AE62323
Date Analyzed	2/8/2011	2/8/2011	2/8/2011	2/8/2011	2/8/2011

Soxhlet Extraction [EPA 3540C]

Client ID	6	7	8	9	10
CET ID	AE62324	AE62325	AE62326	AE62327	AE62328
Date Analyzed	2/8/2011	2/8/2011	2/8/2011	2/8/2011	2/8/2011

ANALYSIS:

EPA 8082 PCBs [EPA 8082] Units: mg/kg (Dry Wt)

Client ID	1	2	3	4	5
CET ID	AE62319	AE62320	AE62321	AE62322	AE62323
Date Analyzed	2/11/2011	2/11/2011	2/11/2011	2/11/2011	2/11/2011
Dilution	50.0	1.0	1.0	10.0	20.0
PCB-1016	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1221	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1232	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1242	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1248	21	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1254	14	1.1	0.90	13	17
PCB-1260	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
PCB-1268	ND < 13	ND < 0.30	ND < 0.30	ND < 2.5	ND < 5.0
TCMX (Surr 1) 50-150	102	85	49	99	61
DCB (Surr 2) 50-150	105	107	30	101	59

EPA 8082 PCBs [EPA 8082] Units: mg/kg (Dry Wt)

Client ID	6	7	8	9	10
CET ID	AE62324	AE62325	AE62326	AE62327	AE62328
Date Analyzed	2/14/2011	2/14/2011	2/11/2011	2/11/2011	2/11/2011
Dilution	100000.0	100000.0	6.7	1.0	50.0
PCB-1016	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1221	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1232	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1242	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1248	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1254	100000	56000	2.2	1.1	29
PCB-1260	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
PCB-1268	ND < 25000	ND < 25000	ND < 1.7	ND < 0.30	ND < 13
TCMX (Surr 1) 50-150	+	+	60	86	111
DCB (Surr 2) 50-150	+	+	80	70	110

+Surrogate diluted out.

Assumed 100% Total Solids for all samples.

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta
Laboratory Director

Report Comments:

1. ND is None Detected at the specified detection limit.
2. All analyses were performed in house unless a Reference Laboratory is listed.
3. Samples will be disposed of 30 days after the report date.
4. Sample Result Flags:
 - E - The result is estimated, above the calibration range.
 - H - The surrogate recovery is above the control limits.
 - L - The surrogate recovery is below the control limits.
 - B - The compound was detected in the laboratory blank.
 - P - The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
 - D - The RPD between the sample and the sample duplicate is high. Sample homogeneity may be a problem.
5. All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

TRC

21 GRIFFIN RD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6399

CHAIN OF CUSTODY

LAB ID #.

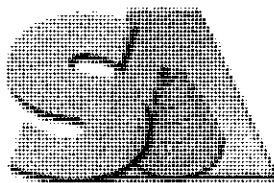
PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME				
			PLM:	24hr	48hr	5day	
181125.1000.0000	Quirk Middle School, Hartford, CT		TEM:	24hr	48hr	5day	
INSPECTOR: (SIGNATURE)		EPA 8082 (3540)					
(PRINTED)							
Jennifer Peshka & Jonathon Gentile							
FIELD SAMPLE NUMBER	DATE		TIME	TYPE		MATERIAL	
				COMP	GRAB		
1	1/26/11		1015	X		Exterior window glaze	
2	1/26/11		0930	X		Exterior door window glaze type 1	
3	1/26/11		1245	X		Exterior door window glaze type 2	
4	1/26/11		1340	X		Exterior door window glaze type 3	
5	1/26/11		1010	X		Exterior window caulk	
6	1/26/11	0902	X		Exterior expansion joint caulk		
7	1/26/11	0910	X		Exterior parapet cap caulk		
8	1/26/11	1450	X		Interior caulk type 1 black glass		
9	1/26/11	1450	X		Interior window glazing type 2		
10	1/28/11	1515	X		Interior window glazing type 1		

Complete Environmental Testing, Inc.

Project#: 181125.1000.0000
 CET#: 11020047
 Project: Quirk Middle School, Hartford

Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
(Printed)	1/30/11	(Signature)	2-4-11
Jennifer Peshka	Time:	(Printed)	Time:
	1117	RECEIVED	1/6/10
		Page 1 of 1	

Report Date:
23-Feb-11 14:06



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Steve Arienti

Project: HSBC - Hartford, CT
Project #: 181125.1000.000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB24765-01	1	Door Caulk	17-Feb-11 13:00	18-Feb-11 16:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.6 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 4.1 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Duplicates:

1103135-DUP1 *Source: SB24765-01*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

Samples:

SB24765-01 *I*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

Sample Identification1
SB24765-01Client Project #
181125.1000.000Matrix
Door CaulkCollection Date/Time
17-Feb-11 13:00Received
18-Feb-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	954000	5000	SW846 8082A	22-Feb-11	23-Feb-11	IMR	1103135	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
11097-69-1	Aroclor-1254	46,700,000		µg/kg dry	954000	5000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	954000	5000	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	93.4		%		1	SM2540 G Mod.	22-Feb-11	22-Feb-11	DT	1103169	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 7

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1103135 - SW846 3540C										
<u>Blank (1103135-BLK1)</u>					<u>Prepared: 22-Feb-11 Analyzed: 23-Feb-11</u>					
Aroclor-1016	BRL		µg/kg wet	400						
Aroclor-1016 [2C]	BRL		µg/kg wet	400						
Aroclor-1221	BRL		µg/kg wet	400						
Aroclor-1221 [2C]	BRL		µg/kg wet	400						
Aroclor-1232	BRL		µg/kg wet	400						
Aroclor-1232 [2C]	BRL		µg/kg wet	400						
Aroclor-1242	BRL		µg/kg wet	400						
Aroclor-1242 [2C]	BRL		µg/kg wet	400						
Aroclor-1248	BRL		µg/kg wet	400						
Aroclor-1248 [2C]	BRL		µg/kg wet	400						
Aroclor-1254	BRL		µg/kg wet	400						
Aroclor-1254 [2C]	BRL		µg/kg wet	400						
Aroclor-1260	BRL		µg/kg wet	400						
Aroclor-1260 [2C]	BRL		µg/kg wet	400						
Aroclor-1262	BRL		µg/kg wet	400						
Aroclor-1262 [2C]	BRL		µg/kg wet	400						
Aroclor-1268	BRL		µg/kg wet	400						
Aroclor-1268 [2C]	BRL		µg/kg wet	400						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	360		µg/kg wet		400		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	390		µg/kg wet		400		98	30-150		
Surrogate: Decachlorobiphenyl (Sr)	324		µg/kg wet		400		81	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	322		µg/kg wet		400		80	30-150		
<u>LCS (1103135-BS1)</u>					<u>Prepared: 22-Feb-11 Analyzed: 23-Feb-11</u>					
Aroclor-1016	4370		µg/kg wet	400	5000		87	50-140		
Aroclor-1016 [2C]	4660		µg/kg wet	400	5000		93	50-140		
Aroclor-1260	3790		µg/kg wet	400	5000		76	50-140		
Aroclor-1260 [2C]	3870		µg/kg wet	400	5000		77	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	716		µg/kg wet		800		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	742		µg/kg wet		800		93	30-150		
Surrogate: Decachlorobiphenyl (Sr)	684		µg/kg wet		800		86	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	614		µg/kg wet		800		77	30-150		
<u>LCS Dup (1103135-BSD1)</u>					<u>Prepared: 22-Feb-11 Analyzed: 23-Feb-11</u>					
Aroclor-1016	4520		µg/kg wet	400	5000		90	50-140	3	30
Aroclor-1016 [2C]	4920		µg/kg wet	400	5000		98	50-140	5	30
Aroclor-1260	3840		µg/kg wet	400	5000		77	50-140	1	30
Aroclor-1260 [2C]	4240		µg/kg wet	400	5000		85	50-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	772		µg/kg wet		800		96	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	816		µg/kg wet		800		102	30-150		
Surrogate: Decachlorobiphenyl (Sr)	760		µg/kg wet		800		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	728		µg/kg wet		800		91	30-150		
<u>Duplicate (1103135-DUP1)</u>					<u>Source: SB24765-01 Prepared: 22-Feb-11 Analyzed: 23-Feb-11</u>					
Aroclor-1016	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1221	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1232	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1242	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1248	BRL		µg/kg dry	1060000		BRL				40

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1103135 - SW846 3540C										
<u>Duplicate (1103135-DUP1)</u>			<u>Source: SB24765-01</u>			<u>Prepared: 22-Feb-11 Analyzed: 23-Feb-11</u>				
Aroclor-1248 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1254	44600000		µg/kg dry	1060000		46700000			5	40
Aroclor-1254 [2C]	43100000		µg/kg dry	1060000		46200000			7	40
Aroclor-1260	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1260 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1262	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1268	BRL		µg/kg dry	1060000		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry	1060000		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.00	S01	µg/kg dry		212			30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.00	S01	µg/kg dry		212			30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.00	S01	µg/kg dry		212			30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.00	S01	µg/kg dry		212			30-150		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: HSBC - Hartford, CT

Project Number: 181125.1000.000

Sampling Date(s):

Laboratory Sample ID(s):

2/17/2011

SB24765-01

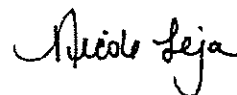
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? <small>* Exceptions are defined by qualifiers</small>	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

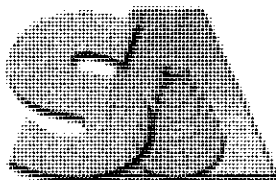


Nicole Leja
Laboratory Director
Date: 2/23/2011

Saricenti@trcsolutions.com
j.pashke@trcsolutions.com

Roof caulk

Report Date:
24-Mar-11 15:07



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Jen Peshka

Project: Quirk Middle School - Hartford, CT
Project #: 181125.1000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB25771-01	12	Light Gray Caulk	15-Mar-11 09:50	17-Mar-11 15:25
SB25771-02	13	Dark Gray Caulk	15-Mar-11 09:53	17-Mar-11 15:25
SB25771-03	14	Red Caulk	15-Mar-11 10:05	17-Mar-11 15:25

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 8 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 10.3 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 3.5 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Identification

12

SB25771-01

Client Project #

181125.1000.0000

Matrix

Light Gray Caulk

Collection Date/Time

15-Mar-11 09:50

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	204	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	204	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	204	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	204	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	204	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	4,030		µg/kg dry	204	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	204	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	204	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	204	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	62			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	96.8		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104687	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification

13

SB25771-02

Client Project #

181125.1000.0000

Matrix

Dark Gray Caulk

Collection Date/Time

15-Mar-11 09:53

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	190	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	190	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	190	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	190	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	190	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1,100		µg/kg dry	190	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	190	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	190	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	190	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	63			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	74			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	64			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.5		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104687	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

14

SB25771-03

Client Project #

181125.1000.0000

Matrix

Red Caulk

Collection Date/Time

15-Mar-11 10:05

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	198	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	198	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	198	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	198	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1,030		µg/kg dry	198	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	198	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	198	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	198	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	94			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	95.8		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104687	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 5 of 8

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104683 - SW846 3540C										
Blank (1104683-BLK1)					Prepared: 17-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	BRL		µg/kg wet	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1221	BRL		µg/kg wet	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1232	BRL		µg/kg wet	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1242	BRL		µg/kg wet	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1248	BRL		µg/kg wet	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1254	BRL		µg/kg wet	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1260	BRL		µg/kg wet	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1262	BRL		µg/kg wet	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1268	BRL		µg/kg wet	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.8		µg/kg wet		20.0		104	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	24.1		µg/kg wet		20.0		121	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.4		µg/kg wet		20.0		77	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.5		µg/kg wet		20.0		68	30-150		
LCS (1104683-B51)					Prepared: 17-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	211		µg/kg wet	20.0	250		85	50-140		
Aroclor-1016 [2C]	232		µg/kg wet	20.0	250		93	50-140		
Aroclor-1260	157		µg/kg wet	20.0	250		63	50-140		
Aroclor-1260 [2C]	175		µg/kg wet	20.0	250		70	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.2		µg/kg wet		20.0		106	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		µg/kg wet		20.0		114	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.9		µg/kg wet		20.0		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.8		µg/kg wet		20.0		69	30-150		
LCS Dup (1104683-BSD1)					Prepared: 17-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	213		µg/kg wet	20.0	250		85	50-140	0.9	30
Aroclor-1016 [2C]	234		µg/kg wet	20.0	250		93	50-140	0.6	30
Aroclor-1260	161		µg/kg wet	20.0	250		64	50-140	2	30
Aroclor-1260 [2C]	183		µg/kg wet	20.0	250		73	50-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.6		µg/kg wet		20.0		103	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.1		µg/kg wet		20.0		111	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.3		µg/kg wet		20.0		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.4		µg/kg wet		20.0		77	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja
Rebecca Merz

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: Quirk Middle School - Hartford, CT

Project Number: 181125.1000.0000

Sampling Date(s):

3/15/2011

Laboratory Sample ID(s):

SB25771-01 through SB25771-03

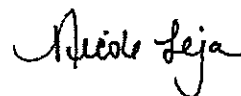
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	Yes	✓ No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? * Exceptions are defined by qualifiers	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes	✓ No

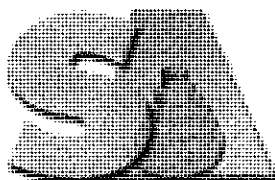
Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/24/2011

Report Date:
10-Mar-11 11:02



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Steve Arienti

Project: HSBC - Hartford, CT
Project #: 181125.1000.000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB25194-01	1EJC	Substrate	01-Mar-11 10:20	03-Mar-11 15:25
SB25194-02	2EJC	Substrate	01-Mar-11 10:24	03-Mar-11 15:25
SB25194-03	3DC	Substrate	01-Mar-11 10:31	03-Mar-11 15:25
SB25194-04	4DC	Substrate	01-Mar-11 10:37	03-Mar-11 15:25
SB25194-05	5EPC	Substrate	01-Mar-11 11:08	03-Mar-11 15:25
SB25194-06	6EPC	Substrate	01-Mar-11 11:20	03-Mar-11 15:25
SB25194-07	7EJC	Substrate	01-Mar-11 11:35	03-Mar-11 15:25
SB25194-08	8EJC	Substrate	01-Mar-11 11:44	03-Mar-11 15:25
SB25194-09	9DC	Substrate	01-Mar-11 13:20	03-Mar-11 15:25
SB25194-10	10DC	Substrate	01-Mar-11 13:24	03-Mar-11 15:25
SB25194-11	11EPC	Substrate	01-Mar-11 13:41	03-Mar-11 15:25
SB25194-12	12EPC	Substrate	01-Mar-11 13:47	03-Mar-11 15:25

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 5.8 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 5.1 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Identification

1EJC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-01	181125.1000.000	Substrate	01-Mar-11 10:20	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.8	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	132			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.6	%	1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794
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Sample Identification

2EJC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-02	181125.1000.000	Substrate	01-Mar-11 10:24	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	63.7	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	63.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	76			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.7	%	1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794
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* Reportable Detection Limit BRL = Below Reporting Limit

Page 3 of 10

Sample Identification

3DC

SB25194-03

Client Project #

181125.1000.000

Matrix

Substrate

Collection Date/Time

01-Mar-11 10:31

Received

03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.6	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	100			%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794	
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Sample Identification

4DC

SB25194-04

Client Project #

181125.1000.000

Matrix

Substrate

Collection Date/Time

01-Mar-11 10:37

Received

03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	59.0	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	59.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.7			%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794	
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* Reportable Detection Limit BRL = Below Reporting Limit

Page 4 of 10

Sample Identification

SEPC

SB25194-05

Client Project #

181125.1000.000

Matrix

Substrate

Collection Date/Time

01-Mar-11 11:08

Received

03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls by SW846 8082

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	64.5	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	64.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.0	%				1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794	
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Sample Identification

6EPC

SB25194-06

Client Project #

181125.1000.000

Matrix

Substrate

Collection Date/Time

01-Mar-11 11:20

Received

03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls by SW846 8082

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	65.2	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	219		µg/kg dry	65.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	74.0		µg/kg dry	65.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	78			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.7	%				1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

7EJC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-07	181125.1000.000	Substrate	01-Mar-11 11:35	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	56.3	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	56.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	78			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.9	%			1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794
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Sample Identification

8EJC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-08	181125.1000.000	Substrate	01-Mar-11 11:44	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	59.2	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	59.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.9	%			1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

9DC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-09	181125.1000.000	Substrate	01-Mar-11 13:20	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	60.4	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	60.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	79			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9			%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	JLH	1103794	
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Sample Identification

10DC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-10	181125.1000.000	Substrate	01-Mar-11 13:24	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	62.4	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	62.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	101			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9			%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	BD	1103799	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

11EPC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-11	181125.1000.000	Substrate	01-Mar-11 13:41	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	60.7	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	70.7		µg/kg dry	60.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	60.7	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	87			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.4		%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	BD	1103799	

Sample Identification

12EPC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25194-12	181125.1000.000	Substrate	01-Mar-11 13:47	03-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	64.1	1	SW846 8082A	07-Mar-11	09-Mar-11	IMR	1103856	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	75.7		µg/kg dry	64.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	64.1	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	71			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.9		%		1	SM2540 G Mod.	03-Mar-11	03-Mar-11	BD	1103799	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1103856 - SW846 3540C										
<u>Blank (1103856-BLK1)</u>					<u>Prepared: 07-Mar-11 Analyzed: 08-Mar-11</u>					
Aroclor-1016	BRL		µg/kg wet	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1221	BRL		µg/kg wet	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1232	BRL		µg/kg wet	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1242	BRL		µg/kg wet	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1248	BRL		µg/kg wet	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1254	BRL		µg/kg wet	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1260	BRL		µg/kg wet	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1262	BRL		µg/kg wet	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1268	BRL		µg/kg wet	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.1		µg/kg wet		20.0		76	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.2		µg/kg wet		20.0		76	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.9		µg/kg wet		20.0		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.2		µg/kg wet		20.0		106	30-150		
<u>LCS (1103856-BS1)</u>					<u>Prepared: 07-Mar-11 Analyzed: 08-Mar-11</u>					
Aroclor-1016	213		µg/kg wet	20.0	250		85	50-140		
Aroclor-1016 [2C]	235		µg/kg wet	20.0	250		94	50-140		
Aroclor-1260	218		µg/kg wet	20.0	250		87	50-140		
Aroclor-1260 [2C]	202		µg/kg wet	20.0	250		81	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.3		µg/kg wet		20.0		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.8		µg/kg wet		20.0		94	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.9		µg/kg wet		20.0		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.4		µg/kg wet		20.0		112	30-150		
<u>LCS Dup (1103856-BSD1)</u>					<u>Prepared: 07-Mar-11 Analyzed: 08-Mar-11</u>					
Aroclor-1016	208		µg/kg wet	20.0	250		83	50-140	2	30
Aroclor-1016 [2C]	230		µg/kg wet	20.0	250		92	50-140	2	30
Aroclor-1260	209		µg/kg wet	20.0	250		84	50-140	4	30
Aroclor-1260 [2C]	196		µg/kg wet	20.0	250		79	50-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.9		µg/kg wet		20.0		84	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.3		µg/kg wet		20.0		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.2		µg/kg wet		20.0		111	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	23.5		µg/kg wet		20.0		118	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor



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Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

SB25194 DM

PROJECT NUMBER	PROJECT NAME	PARAMETERS	LAB ID #	TURNAROUND TIME				
				24hr	48hr	3day	5day	
181125.1000.000	HSBC-Quirk Middle School							
SIGNATURE	INSPECTOR							
<i>Jackie</i>	Jonathan D. Gentile/Tom Martin							
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	COMP	GRA	SAMPLE LOCATION	NOTES	
1E1C	3/1/11	1020	X			See Drawing	12" Substrate Sample 25194-01	
2E1C	3/1/11	1024	X			See Drawing	6" Substrate Sample 02	
3DC	3/1/11	1031	X			See Drawing	12" Substrate Sample 03	
4DC	3/1/11	1037	X			See Drawing	6" Substrate Sample 04	
5EPC	3/1/11	1108	X			See Drawing	12" Substrate Sample 05	
6EPC	3/1/11	1120	X			See Drawing	6" Substrate Sample 06	
7EJC	3/1/11	1135	X			See Drawing	12" Substrate Sample 07	
8EJC	3/1/11	1144	X			See Drawing	6" Substrate Sample 08	
9DC	3/1/11	1320	X			See Drawing	12" Substrate Sample 09	
10DC	3/1/11	1324	X			See Drawing	6" Substrate Sample 10	
11EPC	3/1/11	1341	X			See Drawing	12" Substrate Sample 11	
12EPC	3/1/11	1347	X			See Drawing	6" Substrate Sample 12	

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
<i>Jackie</i>	3/2/11	<i>T. Bender</i>	<i>T. Bender</i>	3/2/11	<i>Tanya K</i>
(Printed)	Time:	(Printed)	(Printed)	Time:	(Printed)
J. Gentile	1327	T. Bender	T. Bender	15:25	Tanya K
Remarks:	Page 1 of 1				

TIME 12:20
refug 5.8°C
garage 5.1°C

Substrate 0"-3"

Report Date:
24-Mar-11 17:01



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
 21 Griffin Road North
 Windsor, CT 06095
 Attn: Jen Peshka

Project: Quirk Middle School - Hartford, CT
 Project #: 181125.1000.000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB25895-01	13-B3	Brick	18-Mar-11 14:10	21-Mar-11 12:35
SB25895-02	14-B0	Brick	18-Mar-11 14:13	21-Mar-11 12:35
SB25895-03	15-B0	Brick	18-Mar-11 14:20	21-Mar-11 12:35
SB25895-04	16-B3	Brick	18-Mar-11 14:25	21-Mar-11 12:35
SB25895-05	17-B3	Brick	18-Mar-11 14:35	21-Mar-11 12:35
SB25895-06	18-B0	Brick	18-Mar-11 14:40	21-Mar-11 12:35
SB25895-07	19-B3	Brick	18-Mar-11 14:58	21-Mar-11 12:35
SB25895-08	20-B0	Brick	18-Mar-11 15:03	21-Mar-11 12:35
SB25895-09	21-B3	Brick	18-Mar-11 15:07	21-Mar-11 12:35
SB25895-10	22-B0	Brick	18-Mar-11 15:10	21-Mar-11 12:35
SB25895-11	23-B3	Brick	18-Mar-11 15:16	21-Mar-11 12:35
SB25895-12	24-B0	Brick	18-Mar-11 15:20	21-Mar-11 12:35
SB25895-13	25-B3	Brick	18-Mar-11 15:28	21-Mar-11 12:35
SB25895-14	26-B0	Brick	18-Mar-11 15:34	21-Mar-11 12:35
SB25895-15	27-B3	Brick	18-Mar-11 15:45	21-Mar-11 12:35
SB25895-16	28-B0	Brick	18-Mar-11 15:50	21-Mar-11 12:35
SB25895-17	29-B3	Brick	18-Mar-11 16:00	21-Mar-11 12:35
SB25895-18	30-B0	Brick	18-Mar-11 16:03	21-Mar-11 12:35
SB25895-19	31-B3	Brick	18-Mar-11 16:05	21-Mar-11 12:35
SB25895-20	32-B0	Brick	18-Mar-11 16:09	21-Mar-11 12:35
SB25895-21	33-B3	Brick	18-Mar-11 16:15	21-Mar-11 12:35
SB25895-22	34-B0	Brick	18-Mar-11 16:18	21-Mar-11 12:35
SB25895-23	35-B3	Brick	18-Mar-11 16:25	21-Mar-11 12:35
SB25895-24	36-B0	Brick	18-Mar-11 16:28	21-Mar-11 12:35
SB25895-25	37-C3	Concrete	18-Mar-11 16:34	21-Mar-11 12:35
SB25895-26	38-C0	Concrete	18-Mar-11 16:38	21-Mar-11 12:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in cursive script that reads "Nicole Leja".

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 37 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 3.6 degrees Celsius. The samples were transported on ice to the laboratory facility and the temperature was recorded at 0.5 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Duplicates:

1104880-DUP1 *Source: SB25895-01*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

Aroclor-1254
Aroclor-1254 [2C]

Samples:

SB25895-02 *14-B0*

The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).

Aroclor-1254

SB25895-02RE1 *14-B0*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Decachlorobiphenyl (Sr) [2C]

SB25895-12 *24-B0*

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

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Samples:

SB25895-12 24-B0

The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).

Aroclor-1254

SB25895-12RE1 24-B0

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB25895-14 26-B0

The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).

Aroclor-1254 [2C]

SB25895-14RE1 26-B0

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Decachlorobiphenyl (Sr) [2C]

Sample Identification

13-B3

SB25895-01

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 14:10

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0546	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.661		mg/kg dry	0.0546	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0546	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.7		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification14-B0
SB25895-02Client Project #
181125.1000.000Matrix
BrickCollection Date/Time
18-Mar-11 14:13Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0652	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	40.3	E	mg/kg dry	0.0652	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0652	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	136			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u> GS1												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.652	10	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	48.0		mg/kg dry	0.652	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.652	10	"	"	"	"	"	X
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	145			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	130			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	135			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	255	SGC		30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

15-B0

SB25895-03

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 14:20

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0536	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	10.3		mg/kg dry	0.0536	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0536	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96		30-150 %			"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	101		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	91		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification16-B3
SB25895-04Client Project #
181125.1000.000Matrix
BrickCollection Date/Time
18-Mar-11 14:25Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0535	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0800		mg/kg dry	0.0535	1	"	"	"	"	"	X
11096-62-5	Aroclor-1260	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.7		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

17-B3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-05	181125.1000.000	Brick	18-Mar-11 14:35	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0597	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0720		mg/kg dry	0.0597	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0597	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	109			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.9		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

18-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-06	181125.1000.000	Brick	18-Mar-11 14:40	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0599	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	8.30		mg/kg dry	0.0599	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

19-B3

SB25895-07

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 14:58

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0594	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
12672-29-8	Aroclor-1248	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
11097-89-1	Aroclor-1254	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0594	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	100		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

20-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-08	181125.1000.000	Brick	18-Mar-11 15:03	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0615	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.583		mg/kg dry	0.0615	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	116		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

21-B3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-09	181125.1000.000	Brick	18-Mar-11 15:07	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0565	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.422		mg/kg dry	0.0565	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0565	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	101			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.9		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

22-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-10	181125.1000.000	Brick	18-Mar-11 15:10	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0575	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.91		mg/kg dry	0.0575	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.1	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

23-B3

SB25895-11

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 15:16

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0540	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.315		mg/kg dry	0.0540	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	81			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.8		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

24-B0

SB25895-12

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 15:20

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0569	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	128	E	mg/kg dry	0.0569	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0569	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	121			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	91			30-150 %		"	"	"	"	"	

Re-analysis of Polychlorinated Biphenyls by SW846 8082

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	5.69	100	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254	234		mg/kg dry	5.69	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	5.69	100	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

25-B3

SB25895-13

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 15:28

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0575	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.409		mg/kg dry	0.0575	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0575	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	121		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	91		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	102		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	91		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

26-B0

SB25895-14

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 15:34

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0617	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	27.8	E	mg/kg dry	0.0617	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0617	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	138			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	114			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	104			30-150 %		"	"	"	"	"	
Re-analysis of Polychlorinated Biphenyls by SW846 8082 GS1												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.617	10	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	27.4		mg/kg dry	0.617	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.617	10	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	215	SGC		30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.7		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

27-B3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-15	181125.1000.000	Brick	18-Mar-11 15:45	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0549	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0650		mg/kg dry	0.0549	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	129			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

28-B0

SB25895-16

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 15:50

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0606	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
53489-21-9	Aroclor-1242	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.47		mg/kg dry	0.0606	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	141			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.7		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104938	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

29-B3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-17	181125.1000.000	Brick	18-Mar-11 16:00	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0540	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.291		mg/kg dry	0.0540	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0540	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

30-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-18	181125.1000.000	Brick	18-Mar-11 16:03	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0495	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104880	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
53459-21-9	Aroclor-1242	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.81		mg/kg dry	0.0495	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0495	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

31-B3

SB25895-19

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 16:05

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0638	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.262		mg/kg dry	0.0638	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0638	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	114			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	107			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

32-B0

SB25895-20

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 16:09

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0606	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
53489-21-9	Aroclor-1242	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.90		mg/kg dry	0.0606	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	111			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.9		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

33-B3

SB25895-21

Client Project #

181125.1000.000

Matrix

Brick

Collection Date/Time

18-Mar-11 16:15

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0529	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
12672-29-8	Aroclor-1248	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0529	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	93			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	111			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	100		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

34-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-22	181125.1000.000	Brick	18-Mar-11 16:18	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0668	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.34		mg/kg dry	0.0668	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	94			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	116			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	119			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.7	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

35-B3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-23	181125.1000.000	Brick	18-Mar-11 16:25	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0525	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0847		mg/kg dry	0.0525	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0525	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	93			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

36-B0	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-24	181125.1000.000	Brick	18-Mar-11 16:28	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0514	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.18		mg/kg dry	0.0514	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0514	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	121			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	117			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.8	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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Sample Identification

37-C3	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25895-25	181125.1000.000	Concrete	18-Mar-11 16:34	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0666	1	SW846 8082A	21-Mar-11	23-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.305		mg/kg dry	0.0666	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	111			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	106			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.2		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	

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Sample Identification

38-C0

SB25895-26

Client Project #

181125.1000.000

Matrix

Concrete

Collection Date/Time

18-Mar-11 16:38

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0666	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	8.77		mg/kg dry	0.0666	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0666	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	117			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	128			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.5		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104880 - SW846 3540C										
Blank (1104880-BLK1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	BRL		mg/kg wet	0.0667						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1221	BRL		mg/kg wet	0.0667						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1232	BRL		mg/kg wet	0.0667						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1242	BRL		mg/kg wet	0.0667						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1248	BRL		mg/kg wet	0.0667						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1254	BRL		mg/kg wet	0.0667						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1260	BRL		mg/kg wet	0.0667						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1262	BRL		mg/kg wet	0.0667						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0667						
Aroclor-1268	BRL		mg/kg wet	0.0667						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0667						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0997		mg/kg wet		0.0667		150	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0810		mg/kg wet		0.0667		122	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0880		mg/kg wet		0.0667		132	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0820		mg/kg wet		0.0667		123	30-150		
LCS (1104880-BS1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	0.778		mg/kg wet	0.0667	0.833		93	50-140		
Aroclor-1016 [2C]	0.784		mg/kg wet	0.0667	0.833		94	50-140		
Aroclor-1260	0.759		mg/kg wet	0.0667	0.833		91	50-140		
Aroclor-1260 [2C]	0.829		mg/kg wet	0.0667	0.833		99	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0677		mg/kg wet		0.0667		102	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0623		mg/kg wet		0.0667		94	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0697		mg/kg wet		0.0667		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0730		mg/kg wet		0.0667		110	30-150		
LCS Dup (1104880-BSD1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	0.742		mg/kg wet	0.0667	0.833		89	50-140	5	30
Aroclor-1016 [2C]	0.746		mg/kg wet	0.0667	0.833		90	50-140	5	30
Aroclor-1260	0.707		mg/kg wet	0.0667	0.833		85	50-140	7	30
Aroclor-1260 [2C]	0.788		mg/kg wet	0.0667	0.833		95	50-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0653		mg/kg wet		0.0667		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0600		mg/kg wet		0.0667		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0660		mg/kg wet		0.0667		99	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0617		mg/kg wet		0.0667		92	30-150		
Duplicate (1104880-DUP1)					Source: SB25895-01 Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0560		BRL				40

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104880 - SW846 3540C										
<u>Duplicate (1104880-DUP1)</u>			<u>Source: SB25895-01</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1254	0.263	QM4	mg/kg dry	0.0560		0.661			86	40
Aroclor-1254 [2C]	0.313	QM4	mg/kg dry	0.0560		0.657			71	40
Aroclor-1260	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0560		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0560		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0730		mg/kg dry		0.0560		131	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0562		mg/kg dry		0.0560		101	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0585		mg/kg dry		0.0560		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0532		mg/kg dry		0.0560		95	30-150		
<u>Matrix Spike (1104880-MS1)</u>			<u>Source: SB25895-01</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.664		mg/kg dry	0.0630	0.788	BRL	84	40-135		
Aroclor-1016 [2C]	0.674		mg/kg dry	0.0630	0.788	BRL	86	40-135		
Aroclor-1260	0.716		mg/kg dry	0.0630	0.788	BRL	91	40-135		
Aroclor-1260 [2C]	0.759		mg/kg dry	0.0630	0.788	BRL	96	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0577		mg/kg dry		0.0630		92	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0529		mg/kg dry		0.0630		84	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0596		mg/kg dry		0.0630		94	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0529		mg/kg dry		0.0630		84	30-150		
<u>Matrix Spike Dup (1104880-MSD1)</u>			<u>Source: SB25895-01</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.718		mg/kg dry	0.0648	0.811	BRL	89	40-135	5	30
Aroclor-1016 [2C]	0.737		mg/kg dry	0.0648	0.811	BRL	91	40-135	6	30
Aroclor-1260	0.743		mg/kg dry	0.0648	0.811	BRL	92	40-135	1	30
Aroclor-1260 [2C]	0.844		mg/kg dry	0.0648	0.811	BRL	104	40-135	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0655		mg/kg dry		0.0648		101	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0597		mg/kg dry		0.0648		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0668		mg/kg dry		0.0648		103	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0616		mg/kg dry		0.0648		95	30-150		
Batch 1104882 - SW846 3540C										
<u>Blank (1104882-BLK1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>							
Aroclor-1016	BRL		mg/kg wet	0.0200						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1221	BRL		mg/kg wet	0.0200						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1232	BRL		mg/kg wet	0.0200						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1242	BRL		mg/kg wet	0.0200						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1268	BRL		mg/kg wet	0.0200						

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* Reportable Detection Limit BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104882 - SW846 3540C										
Blank (1104882-BLK1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11					
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0194		mg/kg wet		0.0200		97	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0255		mg/kg wet		0.0200		128	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0211		mg/kg wet		0.0200		106	30-150		
LCS (1104882-BS1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11					
Aroclor-1016	0.217		mg/kg wet	0.0200	0.250		87	50-140		
Aroclor-1016 [2C]	0.228		mg/kg wet	0.0200	0.250		91	50-140		
Aroclor-1260	0.221		mg/kg wet	0.0200	0.250		89	50-140		
Aroclor-1260 [2C]	0.210		mg/kg wet	0.0200	0.250		84	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0228		mg/kg wet		0.0200		114	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0248		mg/kg wet		0.0200		124	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0236		mg/kg wet		0.0200		118	30-150		
LCS Dup (1104882-BSD1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11					
Aroclor-1016	0.234		mg/kg wet	0.0200	0.250		94	50-140	8	30
Aroclor-1016 [2C]	0.231		mg/kg wet	0.0200	0.250		93	50-140	1	30
Aroclor-1260	0.216		mg/kg wet	0.0200	0.250		86	50-140	3	30
Aroclor-1260 [2C]	0.224		mg/kg wet	0.0200	0.250		90	50-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0226		mg/kg wet		0.0200		113	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0233		mg/kg wet		0.0200		117	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0259		mg/kg wet		0.0200		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0240		mg/kg wet		0.0200		120	30-150		
Duplicate (1104882-DUP1)					Source: SB25895-19	Prepared: 21-Mar-11 Analyzed: 24-Mar-11				
Aroclor-1016	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1254	0.219		mg/kg dry	0.0627		0.262			18	40
Aroclor-1254 [2C]	0.213		mg/kg dry	0.0627		0.233			9	40
Aroclor-1260	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0627		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0627		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0580		mg/kg dry		0.0627		92	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0659		mg/kg dry		0.0627		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0665		mg/kg dry		0.0627		106	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0718		mg/kg dry		0.0627		115	30-150		
Matrix Spike (1104882-MS1)					Source: SB25895-19	Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	0.669		mg/kg dry	0.0631	0.789	BRL	85	40-135		
Aroclor-1016 [2C]	0.761		mg/kg dry	0.0631	0.789	BRL	96	40-135		
Aroclor-1260	0.712		mg/kg dry	0.0631	0.789	BRL	90	40-135		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104882 - SW846 3540C										
<u>Matrix Spike (1104882-MS1)</u>			<u>Source: SB25895-19</u>		<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1260 [2C]	0.705		mg/kg dry	0.0631	0.789	BRL	89	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0618		mg/kg dry		0.0631		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0669		mg/kg dry		0.0631		106	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0704		mg/kg dry		0.0631		112	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0694		mg/kg dry		0.0631		110	30-150		
<u>Matrix Spike Dup (1104882-MSD1)</u>			<u>Source: SB25895-19</u>		<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1016	0.597		mg/kg dry	0.0599	0.749	BRL	80	40-135	6	30
Aroclor-1016 [2C]	0.700		mg/kg dry	0.0599	0.749	BRL	93	40-135	3	30
Aroclor-1260	0.618		mg/kg dry	0.0599	0.749	BRL	82	40-135	9	30
Aroclor-1260 [2C]	0.633		mg/kg dry	0.0599	0.749	BRL	84	40-135	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0563		mg/kg dry		0.0599		94	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0632		mg/kg dry		0.0599		106	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0635		mg/kg dry		0.0599		106	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0632		mg/kg dry		0.0599		106	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104941 - General Preparation										
<u>Duplicate (1104941-DUP1)</u>										
				<u>Source: SB25895-17</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	99.5		%			99.8			0.3	20

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Rebecca Merz

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: Quirk Middle School - Hartford, CT

Project Number: 181125.1000.000

Sampling Date(s):

3/18/2011

Laboratory Sample ID(s):

SB25895-01 through SB25895-26

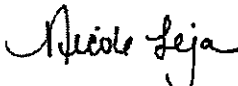
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? <i>* Exceptions are defined by qualifiers</i>	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/24/2011



11 COTTLETON ROAD NORTH
WINDSOR, CONNECTICUT 06095
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FAX (860) 298-6660

CHAIN OF CUSTODY

Collected September 2007
Superior Products Center

09-25-07

PROJECT NUMBER
10125-100000

PROJECT NAME
GSDS, Chert Middle School

PARAMETERS

LAB USE				
DATE	TIME	ANALYST	TEST	RESULT

SIGNATURE

INSPECTOR
Inspector, Products & Sales, Connecticut

NOTES

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	FIELD USE	PARAMETERS	NOTES
			1	2				
13-B	9/10/11	14:00	X		Soil Drilling	X		3" Bore H/C 0.25-0.5 0.01
14-B	9/10/11	14:10	X		Soil Drilling	X		0.25-0.5 0.01
15-B	9/10/11	14:20	X		Soil Drilling	X		0.25-0.5 0.01
16-B	9/10/11	14:30	X		Soil Drilling	X		0.25-0.5 0.01
17-B	9/10/11	14:40	X		Soil Drilling	X		0.25-0.5 0.01
18-B	9/10/11	14:50	X		Soil Drilling	X		0.25-0.5 0.01
19-B	9/10/11	15:00	X		Soil Drilling	X		0.25-0.5 0.01
20-B	9/10/11	15:10	X		Soil Drilling	X		0.25-0.5 0.01
21-B	9/10/11	15:20	X		Soil Drilling	X		0.25-0.5 0.01
22-B	9/10/11	15:30	X		Soil Drilling	X		0.25-0.5 0.01
23-B	9/10/11	15:40	X		Soil Drilling	X		0.25-0.5 0.01
24-B	9/10/11	15:50	X		Soil Drilling	X		0.25-0.5 0.01
25-B	9/10/11	16:00	X		Soil Drilling	X		0.25-0.5 0.01

Inspector's Signature 	Date 9/25/11	Inspector's Name Inspector	Inspector's Title Inspector	Inspector's Company Superior Products Center
Inspector's Initials Inspector	Date 9/25/11	Inspector's Name Inspector	Inspector's Title Inspector	Inspector's Company Superior Products Center



Eastern Region
Superior Project Editor

CHAIN OF CUSTODY

31 CENTERS ROAD NORTH
MENDOTA, CONNECTICUT 06040
TELEPHONE (860) 281-7900
FAX (860) 284-6990
PROJECT NUMBER
10124.1001.000

LABOR

TIME REQUIRED (HRS)			
DATE	AMOUNT	DATE	AMOUNT

PROJECT NAME			PROJECT NAME			PROJECT NAME		
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 NATIONAL BUREAU OF STANDARDS
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 Fax: (301) 975-2955
 E-mail: ncas@nist.gov
 Web: <http://www.nist.gov>

11 CENTURIES REPRODUCED
 WATSON, CONNECTICUT 06105
 TELEPHONE (203) 266-5500
 FAX (203) 266-5501

CHAIN OF CUSTODY

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PROJECT FINANCING
IN THE MIDDLE EAST

[illegible]

DAVE KETTER

Executive Producer & Editor, KCMU-TV

[illegible]

Abstract

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THE

一、**项目背景**：本项目旨在开发一款基于深度学习的图像识别系统，用于检测工业缺陷。项目启动于2023年1月，计划周期为12个月。

[illegible]

24-202	3/16/11	1654	X	See Drawing	X		0" Black EDC	1-1
24-203	3/16/11	1653	X	See Drawing	X		0" Black WSC	1-5
24-204	3/16/11	1652	X	See Drawing	X		0" Black WSC	1-6
24-205	3/16/11	1651	X	See Drawing	X		0" Black EDC	1-9
24-206	3/16/11	1650	X	See Drawing	X		0" Black EDC	1-3
24-207	3/16/11	1649	X	See Drawing	X		0" Black EDC	1-4
24-208	3/18/11	1648	X	See Drawing	X		0" Black EDC	1-20
24-209	3/18/11	1647	X	See Drawing	X		0" Black WSC	1-21
24-210	3/18/11	1646	X	See Drawing	X		0" Black WSC	1-22
24-211	3/18/11	1645	X	See Drawing	X		0" Black EDC	1-23
24-212	3/18/11	1644	X	See Drawing	X		0" Black EDC	1-24
24-213	3/18/11	1643	X	See Drawing	X		0" Chrome WSC	1-25
24-214	3/18/11	1642	X	See Drawing	X		0" Chrome WSC	1-26

[illegible][illegible][illegible][illegible]

一、**目的**：通过本实验，使学生掌握：1. 常用仪器的使用；2. 数据的记录与处理；3. 误差的分析与计算。

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

THE BEST AND A NEW COURSE BOOK

[illegible][illegible]

~~Substrate 011-311~~
Surface cover 1-50

Report Date:
24-Mar-11 15:02



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Jen Peshka

Project: Quirk Middle School - Hartford, CT
Project #: 181125.1000.0000

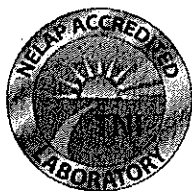
<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB25773-01	01-Soil	Soil	15-Mar-11 11:31	17-Mar-11 15:25
SB25773-02	02-SC	Asphalt	15-Mar-11 11:32	17-Mar-11 15:25
SB25773-03	03-SC	Asphalt	15-Mar-11 11:40	17-Mar-11 15:25
SB25773-04	04-SC	Asphalt	15-Mar-11 11:50	17-Mar-11 15:25
SB25773-05	05-SC	Asphalt	15-Mar-11 11:34	17-Mar-11 15:25
SB25773-06	06-SC	Concrete	15-Mar-11 11:07	17-Mar-11 15:25
SB25773-07	07-SC	Concrete	15-Mar-11 11:14	17-Mar-11 15:25
SB25773-08	08-SC	Asphalt	15-Mar-11 12:00	17-Mar-11 15:25
SB25773-09	09-SC	Asphalt	15-Mar-11 12:07	17-Mar-11 15:25
SB25773-10	10-SC	Asphalt	15-Mar-11 12:09	17-Mar-11 15:25
SB25773-11	11-SC	Asphalt	15-Mar-11 12:12	17-Mar-11 15:25
SB25773-12	12-SC	Concrete Asphalt	15-Mar-11 12:14	17-Mar-11 15:25
SB25773-13	13-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-14	14-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-15	15-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-16	16-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-17	17-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-18	18-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-19	19-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-20	20-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-21	21-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-22	22-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-23	23-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-24	24-SC	Soil	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-25	25-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-26	26-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-27	27-SC	Soil	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-28	28-SC	Soil	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-29	29-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-30	30-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-31	31-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-32	32-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-33	33-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-34	34-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-35	35-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-36	36-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-37	37-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25

SB25773-38	38-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-39	39-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-40	40-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-41	41-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-42	42-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-43	43-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-44	44-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-45	45-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-46	46-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-47	47-SC	Asphalt	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-48	48-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-49	49-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25
SB25773-50	50-SC	Concrete	15-Mar-11 00:00	17-Mar-11 15:25

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435 .



Authorized by:

Nicole Leja

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 62 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 10.3 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 3.5 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Laboratory Control Samples:

1104688 BSD

Aroclor-1016 RPD 33% (30%) is outside individual acceptance criteria, but within overall method allowances.

Aroclor-1260 RPD 32% (30%) is outside individual acceptance criteria, but within overall method allowances.

1104688-BSD1

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Aroclor-1016

Aroclor-1260

Samples:

S102036-CCV2

Samples:

S102036-CCV2

Analyte percent difference is outside individual acceptance criteria (15), but within overall method allowances.

Aroclor-1221 (4) [2C] (-15.8%)
Aroclor-1221 (5) (17.8%)
Aroclor-1262 (1) (16.3%)
Aroclor-1262 (3) [2C] (-18.9%)
Aroclor-1262 (4) [2C] (-18.0%)
Aroclor-1262 (5) [2C] (-21.4%)

This affected the following samples:

50-SC

SB25773-11

11-SC

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB25773-12

12-SC

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB25773-25

25-SC

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB25773-26

26-SC

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB25773-29

29-SC

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

Sample Identification

01-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-01	181125.1000.0000	Soil	15-Mar-11 11:31	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	25.6	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	697		µg/kg dry	25.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	25.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	77.4	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

02-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-02	181125.1000.0000	Asphalt	15-Mar-11 11:32	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.7	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	62.1		µg/kg dry	20.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	68			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	94.5		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Page 6 of 62

Sample Identification

03-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-03	181125.1000.0000	Asphalt	15-Mar-11 11:40	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.7	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	77.4		µg/kg dry	20.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	69			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	69			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	95.9	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696
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• Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

04-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-04	181125.1000.0000	Asphalt	15-Mar-11 11:50	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.4	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2,730		µg/kg dry	20.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	76			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.1		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

<u>05-SC</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-05	181125.1000.0000	Asphalt	15-Mar-11 11:34	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	26.6	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	562		µg/kg dry	26.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	26.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	113			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	69			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	71			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	73.5	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification06-SC
SB25773-06Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
15-Mar-11 11:07Received
17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	58.6	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	58.6	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	69			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	74			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.5		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

07-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-07	181125.1000.0000	Concrete	15-Mar-11 11:14	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	61.8	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	68			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.6			%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

08-SC

SB25773-08

Client Project #
181125.1000.0000

Matrix
Asphalt

Collection Date/Time
15-Mar-11 12:00

Received
17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.0	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	327		µg/kg dry	20.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	81			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	95.6		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

09-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-09	181125.1000.0000	Asphalt	15-Mar-11 12:07	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.2	1	SW846 8082A	17-Mar-11	24-Mar-11	IMR	1104683	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	131		µg/kg dry	20.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	61			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

10-SC

SB25773-10

Client Project #

181125.1000.0000

Matrix

Asphalt

Collection Date/Time

15-Mar-11 12:09

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	558	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	558	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	558	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	558	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	558	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	558	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	558	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	558	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	558	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	121			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.0	%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

11-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-11	181125.1000.0000	Asphalt	15-Mar-11 12:12	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	539	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	539	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	539	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	539	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	539	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	539	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	539	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	539	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	539	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	128			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	170	S02		30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	94.5		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

12-SC

SB25773-12

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 12:14

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.7	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	136		µg/kg dry	66.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	312	S02		30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.0		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

13-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-13	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	611	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	611	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	611	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	611	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	611	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	754		µg/kg dry	611	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	611	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	611	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	611	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	137			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	145			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.0	%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

14-SC

SB25773-14

Client Project #

181125.1000.0000

Matrix

Asphalt

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	560	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	560	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	560	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	560	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	560	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	560	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	560	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	560	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	560	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	127			30-150 %		"	"	"	"	"	
<u>General Chemistry Parameters</u>												
	% Solids	98.1		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

15-SC

SB25773-15

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	67.1	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	163		µg/kg dry	67.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	67.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.8		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

16-SC

SB25773-16

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	69.3	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	69.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	82			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.2			%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

17-SC
SB25773-17

Client Project #
181125.1000.0000

Matrix
Concrete

Collection Date/Time
15-Mar-11 00:00

Received
17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	68.0	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
11098-82-5	Aroclor-1260	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	68.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	109		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	89		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	91		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	76		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	97.4	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696			
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

18-SC

SB25773-18

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	69.0	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	69.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	104			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	76			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.5		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

19-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-19	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.1	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	81			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.7	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

20-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-20	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	67.5	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.4		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104696	
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Sample Identification

21-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-21	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.7	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	82.1		µg/kg dry	66.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	74			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

22-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-22	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	68.6	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	88.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	49			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.1	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

23-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-23	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	67.5	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
53489-21-9	Aroclor-1242	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11087-69-1	Aroclor-1254	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	67.5	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	114			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.3		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

24-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-24	181125.1000.0000	Soil	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	27.4	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	69.2		µg/kg dry	27.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	27.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	144			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	114			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	68.9		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	
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Sample Identification

25-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-25	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	192	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	192	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	192	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	192	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	192	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	192	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	192	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	192	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	192	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	162	S02		30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	94.5	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699
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Sample Identification

26-SC

SB25773-26

Client Project #

181125.1000.0000

Matrix

Asphalt

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846-8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	66.6	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	66.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	81			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	669	S02		30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.1		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

27-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-27	181125.1000.0000	Soil	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	25.8	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	59.8		µg/kg dry	25.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	25.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	126			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	93			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	128			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	76.5	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699
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Sample Identification

28-SC
SB25773-28

Client Project #
181125.1000.0000

Matrix
Soil

Collection Date/Time
15-Mar-11 00:00

Received
17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	27.7	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	92.3		µg/kg dry	27.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	27.7	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	128			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	69.3		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

29-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-29	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	68.6	1	SW846 8082A	17-Mar-11	19-Mar-11	SM	1104688	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	68.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	162	S02		30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	122			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	138			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.2	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

30-SC

SB25773-30

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	65.2	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	126		µg/kg dry	65.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	65.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	74			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.3		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

31-SC

SB25773-31

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		µg/kg dry	54.7	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	54.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	84			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	81			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	95.3		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

32-SC

SB25773-32

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	53.5	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	53.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	111			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.5		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104699	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

33-SC

SB25773-33

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	61.8	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	77.6		µg/kg dry	61.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	82			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	79			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.9		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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Sample Identification

34-SC	Client Project #	Matrix	Collection Date/Time	Received
SB25773-34	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	58.7	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	58.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

35-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-35	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	61.8	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	61.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	77			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	79			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.9	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

36-SC

SB25773-36

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	61.9	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	61.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.3			%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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Sample Identification

37-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-37	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	59.6	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
11097-89-1	Aroclor-1254	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	59.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.4	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690
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Sample Identification

38-SC

SB25773-38

Client Project #
181125.1000.0000

Matrix
Concrete

Collection Date/Time
15-Mar-11 00:00

Received
17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	62.9	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	62.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.0	%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification39-SC
SB25773-39Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
15-Mar-11 00:00Received
17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	55.7	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	55.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.8		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

40-SC

SB25773-40

Client Project #

181125.1000.0000

Matrix

Asphalt

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.1	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	244		µg/kg dry	19.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.1	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %		"	"	"	"	"	
<u>General Chemistry Parameters</u>												
	% Solids	98.8		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

41-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-41	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.3	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2,260		µg/kg dry	19.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	69			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	64			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.1			%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

42-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-42	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		µg/kg dry	20.0	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	657		µg/kg dry	20.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	78			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	77			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	68			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.0	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

43-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-43	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.2	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	606		µg/kg dry	19.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	61			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	71			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	54			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	54			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.3	%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690
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Sample Identification

44-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-44	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.0	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	653		µg/kg dry	19.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	59			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	71			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	51			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.0		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

45-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-45	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12874-11-2	Aroclor-1016	BRL		µg/kg dry	19.6	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	299		µg/kg dry	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	58			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.3		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

46-SC

SB25773-46

Client Project #

181125.1000.0000

Matrix

Asphalt

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12874-11-2	Aroclor-1016	BRL		µg/kg dry	19.6	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1,520		µg/kg dry	19.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.6	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	79			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	99.2		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

47-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-47	181125.1000.0000	Asphalt	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.3	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	327		µg/kg dry	19.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	59			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	67			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	49			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.3	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

48-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-48	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	54.1	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	85.1		µg/kg dry	54.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1266	BRL		µg/kg dry	54.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	111			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	119			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.1	%				1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

64-sc

SB25896-15

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:07

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0549	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.917		mg/kg dry	0.0549	1	"	"	"	"	"	X
11096-62-5	Aroclor-1260	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification65-sc
SB25896-16Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 10:12Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0660	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
12672-29-5	Aroclor-1248	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.00		mg/kg dry	0.0660	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	101			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

66-sc

SB25896-17

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:18

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0684	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	126			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

<u>67-sc</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-18	181125.1000.0000	Concrete	18-Mar-11 10:23	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0586	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.507		mg/kg dry	0.0586	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.3		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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Sample Identification

68-sc

SB25896-19

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:28

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0641	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942		
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

69-sc

SB25896-20

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:33

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0598	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.0		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

70-sc

SB25896-21

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:39

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0630	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.149		mg/kg dry	0.0630	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.2		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

71-sc

SB25896-22

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:45

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0606	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	127			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	89			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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BRL = Below Reporting Limit

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Sample Identification

72-sc

SB25896-23

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:51

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0599	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0943		mg/kg dry	0.0599	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	111			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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Sample Identification

73-sc

SB25896-24

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:57

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0574	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.105		mg/kg dry	0.0574	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	116			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.1		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification74-sc
SB25896-25Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 11:01Received
21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0523	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.565		mg/kg dry	0.0523	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification75-sc
SB25896-26Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 11:08Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0601	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.235		mg/kg dry	0.0601	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	74			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.9	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

76-sc

SB25896-27

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:13

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0547	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0700		mg/kg dry	0.0547	1	"	"	"	"	"	X
11098-62-5	Aroclor-1260	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

77-sc

SB25896-28

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:18

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0640	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11097-89-1	Aroclor-1254	1.39		mg/kg dry	0.0640	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	130			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.5		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

78-sc

SB25896-29

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:23

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0611	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0760		mg/kg dry	0.0611	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	141			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

79-sc

SB25896-30

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:29

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0549	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	8.78		mg/kg dry	0.0549	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	111		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	97.2	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

80-sc

SB25896-31

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:34

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0570	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
12672-28-6	Aroclor-1248	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0755		mg/kg dry	0.0570	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5			%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

81-sc

SB25896-32

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:39

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0615	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0908		mg/kg dry	0.0615	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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Sample Identification

82-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-33	181125.1000.0000	Concrete	18-Mar-11 11:44	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0607	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	118			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943
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Sample Identification

83-sc

SB25896-34

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:50

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0557	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0868		mg/kg dry	0.0557	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	77			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

84-sc

SB25896-35

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:58

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0598	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

<u>85-sc</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-36	181125.1000.0000	Concrete	18-Mar-11 12:03	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0631	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.484		mg/kg dry	0.0631	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

86-sc

SB25896-37

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 12:08

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0596	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
53469-21-0	Aroclor-1242	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.553		mg/kg dry	0.0596	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	66			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.2	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

87-sc

SB25896-38

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 12:40

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0610	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	129			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification88-sc
SB25896-39Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 12:45Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0535	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.639		mg/kg dry	0.0535	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification89-sc
SB25896-40Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 12:49Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0623	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	126			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.1	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

90-sc

SB25896-41

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 12:54

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0668	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.3		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

91-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-42	181125.1000.0000	Concrete	18-Mar-11 13:02	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0618	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.8		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

92-sc

SB25896-43

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:08

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0521	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.332		mg/kg dry	0.0521	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	79			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.8		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification

93-sc

SB25896-44

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:13

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0618	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.9		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

94-sc	Client Project #	Matrix	Collection Date/Time	Received
SB25896-45	181125.1000.0000	Concrete	18-Mar-11 13:18	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0646	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11097-59-1	Aroclor-1254	0.421		mg/kg dry	0.0646	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

95-sc

SB25896-46

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:24

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0599	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.156		mg/kg dry	0.0599	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	111			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

96-sc

SB25896-47

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:30

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0645	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0665		mg/kg dry	0.0645	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

97-Soil	Client Project #	Matrix	Collection Date/Time	Received
SB25896-48	181125.1000.0000	Soil	18-Mar-11 13:33	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0239	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.42		mg/kg dry	0.0239	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	101		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	92		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	79		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	80.4	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

98-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-49	181125.1000.0000	Soil	18-Mar-11 13:38	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0234	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.177		mg/kg dry	0.0234	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	79.1		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

<u>99-Soil</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-50	181125.1000.0000	Soil	18-Mar-11 13:44	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0234	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.20		mg/kg dry	0.0234	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	138			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	82.2		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

100-Soil

SB25896-51

Client Project #

181125.1000.0000

Matrix

Soil

Collection Date/Time

18-Mar-11 13:50

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0227	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.243		mg/kg dry	0.0227	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	84.0		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

101-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-52	181125.1000.0000	Asphalt	18-Mar-11 13:55	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.207	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.982		mg/kg dry	0.207	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	116			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.3	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

102-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-53	181125.1000.0000	Asphalt	18-Mar-11 14:00	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0202	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104847	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.499		mg/kg dry	0.0202	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	73			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	56			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	55			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962	
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

103-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-54	181125.1000.0000	Asphalt	18-Mar-11 14:03	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0200	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104847	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.171		mg/kg dry	0.0200	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	67			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	46			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.3		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962	
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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 1104847 - SW846 3540C									
Blank (1104847-BLK1)					Prepared: 21-Mar-11 Analyzed: 22-Mar-11				
Aroclor-1016	BRL		mg/kg wet	0.0200					
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1221	BRL		mg/kg wet	0.0200					
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1232	BRL		mg/kg wet	0.0200					
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1242	BRL		mg/kg wet	0.0200					
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1248	BRL		mg/kg wet	0.0200					
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1254	BRL		mg/kg wet	0.0200					
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1260	BRL		mg/kg wet	0.0200					
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1262	BRL		mg/kg wet	0.0200					
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1268	BRL		mg/kg wet	0.0200					
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0177		mg/kg wet		0.0200		88	30-150	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0215		mg/kg wet		0.0200		108	30-150	
Surrogate: Decachlorobiphenyl (Sr)	0.0241		mg/kg wet		0.0200		121	30-150	
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0246		mg/kg wet		0.0200		123	30-150	
LCS (1104847-BS1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	0.204		mg/kg wet	0.0200	0.250		82	50-140	
Aroclor-1016 [2C]	0.232		mg/kg wet	0.0200	0.250		93	50-140	
Aroclor-1260	0.213		mg/kg wet	0.0200	0.250		85	50-140	
Aroclor-1260 [2C]	0.218		mg/kg wet	0.0200	0.250		87	50-140	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0174		mg/kg wet		0.0200		87	30-150	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0201		mg/kg wet		0.0200		101	30-150	
Surrogate: Decachlorobiphenyl (Sr)	0.0236		mg/kg wet		0.0200		118	30-150	
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0276		mg/kg wet		0.0200		138	30-150	
LCS Dup (1104847-BSD1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	0.224		mg/kg wet	0.0200	0.250		89	50-140	9
Aroclor-1016 [2C]	0.243		mg/kg wet	0.0200	0.250		97	50-140	5
Aroclor-1260	0.228		mg/kg wet	0.0200	0.250		91	50-140	7
Aroclor-1260 [2C]	0.205		mg/kg wet	0.0200	0.250		82	50-140	6
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0189		mg/kg wet		0.0200		94	30-150	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0203		mg/kg wet		0.0200		102	30-150	
Surrogate: Decachlorobiphenyl (Sr)	0.0259		mg/kg wet		0.0200		130	30-150	
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0258		mg/kg wet		0.0200		129	30-150	
Batch 1104882 - SW846 3540C									
Blank (1104882-BLK1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	BRL		mg/kg wet	0.0200					
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1221	BRL		mg/kg wet	0.0200					
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1232	BRL		mg/kg wet	0.0200					
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1242	BRL		mg/kg wet	0.0200					
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200					

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104882 - SW846 3540C										
<u>Blank (1104882-BLK1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0194		mg/kg wet		0.0200		97	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0255		mg/kg wet		0.0200		128	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0211		mg/kg wet		0.0200		106	30-150		
<u>LCS (1104882-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1016	0.217		mg/kg wet	0.0200	0.250		87	50-140		
Aroclor-1016 [2C]	0.228		mg/kg wet	0.0200	0.250		91	50-140		
Aroclor-1260	0.221		mg/kg wet	0.0200	0.250		89	50-140		
Aroclor-1260 [2C]	0.210		mg/kg wet	0.0200	0.250		84	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0228		mg/kg wet		0.0200		114	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0248		mg/kg wet		0.0200		124	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0236		mg/kg wet		0.0200		118	30-150		
<u>LCS Dup (1104882-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1016	0.234		mg/kg wet	0.0200	0.250		94	50-140	8	30
Aroclor-1016 [2C]	0.231		mg/kg wet	0.0200	0.250		93	50-140	1	30
Aroclor-1260	0.216		mg/kg wet	0.0200	0.250		86	50-140	3	30
Aroclor-1260 [2C]	0.224		mg/kg wet	0.0200	0.250		90	50-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0226		mg/kg wet		0.0200		113	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0233		mg/kg wet		0.0200		117	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0259		mg/kg wet		0.0200		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0240		mg/kg wet		0.0200		120	30-150		
Batch 1104883 - SW846 3540C										
<u>Blank (1104883-BLK1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	BRL		mg/kg wet	0.0200						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1221	BRL		mg/kg wet	0.0200						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1232	BRL		mg/kg wet	0.0200						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1242	BRL		mg/kg wet	0.0200						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104883 - SW846 3540C										
<u>Blank (1104883-BLK1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0264		mg/kg wet		0.0200		132	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0199		mg/kg wet		0.0200		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0228		mg/kg wet		0.0200		114	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0187		mg/kg wet		0.0200		94	30-150		
<u>LCS (1104883-BS1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.227		mg/kg wet	0.0200	0.250		91	50-140		
Aroclor-1016 [2C]	0.225		mg/kg wet	0.0200	0.250		90	50-140		
Aroclor-1260	0.201		mg/kg wet	0.0200	0.250		80	50-140		
Aroclor-1260 [2C]	0.237		mg/kg wet	0.0200	0.250		95	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0208		mg/kg wet		0.0200		104	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0196		mg/kg wet		0.0200		98	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0201		mg/kg wet		0.0200		101	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0175		mg/kg wet		0.0200		88	30-150		
<u>LCS Dup (1104883-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.190		mg/kg wet	0.0200	0.250		76	50-140	18	30
Aroclor-1016 [2C]	0.218		mg/kg wet	0.0200	0.250		87	50-140	4	30
Aroclor-1260	0.191		mg/kg wet	0.0200	0.250		76	50-140	5	30
Aroclor-1260 [2C]	0.221		mg/kg wet	0.0200	0.250		88	50-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0174		mg/kg wet		0.0200		87	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0195		mg/kg wet		0.0200		98	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0166		mg/kg wet		0.0200		83	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0164		mg/kg wet		0.0200		82	30-150		
<u>Duplicate (1104883-DUP1)</u>					<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>			
Aroclor-1016	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1254	2.66		mg/kg dry	0.0245		2.14			22	40
Aroclor-1254 [2C]	2.68		mg/kg dry	0.0245		2.22			18	40
Aroclor-1260	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0350		mg/kg dry		0.0245		143	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0244		mg/kg dry		0.0245		99	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0290		mg/kg dry		0.0245		118	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0268		mg/kg dry		0.0245		109	30-150		
<u>Matrix Spike (1104883-MS1)</u>					<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>			
Aroclor-1016	0.242		mg/kg dry	0.0237	0.296	BRL	82	40-135		
Aroclor-1016 [2C]	0.247		mg/kg dry	0.0237	0.296	BRL	83	40-135		

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104883 - SW846 3540C										
<u>Matrix Spike (1104883-MS1)</u>			<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1260	0.534	QM2	mg/kg dry	0.0237	0.296	BRL	180	40-135		
Aroclor-1260 [2C]	0.546	QM2	mg/kg dry	0.0237	0.296	BRL	184	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0249		mg/kg dry		0.0237		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0218		mg/kg dry		0.0237		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0292		mg/kg dry		0.0237		123	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0285		mg/kg dry		0.0237		120	30-150		
<u>Matrix Spike Dup (1104883-MSD1)</u>			<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.277		mg/kg dry	0.0242	0.302	BRL	92	40-135	11	30
Aroclor-1016 [2C]	0.286		mg/kg dry	0.0242	0.302	BRL	95	40-135	13	30
Aroclor-1260	0.616	QM2	mg/kg dry	0.0242	0.302	BRL	204	40-135	13	30
Aroclor-1260 [2C]	0.694	QM2	mg/kg dry	0.0242	0.302	BRL	230	40-135	22	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0296		mg/kg dry		0.0242		123	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0254		mg/kg dry		0.0242		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0273		mg/kg dry		0.0242		113	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0220		mg/kg dry		0.0242		91	30-150		
Batch 1104885 - SW846 3540C										
<u>Blank (1104885-BLK1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	BRL		mg/kg wet	0.0200						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1221	BRL		mg/kg wet	0.0200						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1232	BRL		mg/kg wet	0.0200						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1242	BRL		mg/kg wet	0.0200						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0226		mg/kg wet		0.0200		113	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0184		mg/kg wet		0.0200		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0203		mg/kg wet		0.0200		102	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0178		mg/kg wet		0.0200		89	30-150		
<u>LCS (1104885-BS1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	0.225		mg/kg wet	0.0200	0.250		90	50-140		
Aroclor-1016 [2C]	0.206		mg/kg wet	0.0200	0.250		82	50-140		
Aroclor-1260	0.210		mg/kg wet	0.0200	0.250		84	50-140		
Aroclor-1260 [2C]	0.228		mg/kg wet	0.0200	0.250		91	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0203		mg/kg wet		0.0200		102	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0173		mg/kg wet		0.0200		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0209		mg/kg wet		0.0200		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0154		mg/kg wet		0.0200		77	30-150		
<u>LCS Dup (1104885-BSD1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	0.226		mg/kg wet	0.0200	0.250		91	50-140	0.7	30

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104885 - SW846 3540C										
<u>LCS Dup (1104885-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016 [2C]	0.211		mg/kg wet	0.0200	0.250		84	50-140	2	30
Aroclor-1260	0.217		mg/kg wet	0.0200	0.250		87	50-140	4	30
Aroclor-1260 [2C]	0.227		mg/kg wet	0.0200	0.250		91	50-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0205		mg/kg wet		0.0200		103	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0174		mg/kg wet		0.0200		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0165		mg/kg wet		0.0200		82	30-150		
<u>Duplicate (1104885-DUP1)</u>					<u>Source: SB25896-33 Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1254	BRL		mg/kg dry	0.0536		0.0422				40
Aroclor-1254 [2C]	0.0263	J	mg/kg dry	0.0536		0.0367			33	40
Aroclor-1260	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0896	S02	mg/kg dry		0.0536		167	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0687		mg/kg dry		0.0536		128	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0802		mg/kg dry		0.0536		150	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0743		mg/kg dry		0.0536		139	30-150		
<u>Matrix Spike (1104885-MS1)</u>					<u>Source: SB25896-33 Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.635		mg/kg dry	0.0624	0.780	BRL	81	40-135		
Aroclor-1016 [2C]	0.625		mg/kg dry	0.0624	0.780	BRL	80	40-135		
Aroclor-1260	0.668		mg/kg dry	0.0624	0.780	BRL	86	40-135		
Aroclor-1260 [2C]	0.725		mg/kg dry	0.0624	0.780	BRL	93	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0530		mg/kg dry		0.0624		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0536		mg/kg dry		0.0624		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0655		mg/kg dry		0.0624		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0568		mg/kg dry		0.0624		91	30-150		
<u>Matrix Spike Dup (1104885-MSD1)</u>					<u>Source: SB25896-33 Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.545		mg/kg dry	0.0578	0.722	BRL	76	40-135	8	30
Aroclor-1016 [2C]	0.533		mg/kg dry	0.0578	0.722	BRL	74	40-135	8	30
Aroclor-1260	0.580		mg/kg dry	0.0578	0.722	BRL	80	40-135	6	30
Aroclor-1260 [2C]	0.654		mg/kg dry	0.0578	0.722	BRL	91	40-135	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0569		mg/kg dry		0.0578		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0500		mg/kg dry		0.0578		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0621		mg/kg dry		0.0578		108	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0601		mg/kg dry		0.0578		104	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104942 - General Preparation										
<u>Duplicate (1104942-DUP1)</u>				<u>Source: SB25896-11</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	70.9		%			69.0			3	20
Batch 1104943 - General Preparation										
<u>Duplicate (1104943-DUP1)</u>				<u>Source: SB25896-31</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	97.9		%			97.5			0.4	20
Batch 1104962 - General Preparation										
<u>Duplicate (1104962-DUP1)</u>				<u>Source: SB25896-51</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	83.5		%			84.0			0.5	20

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* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Rebecca Merz

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: Quirk Middle School - Hartford, CT

Project Number: 181125.1000.0000

Sampling Date(s):

3/18/2011

Laboratory Sample ID(s):

SB25896-01 through SB25896-54

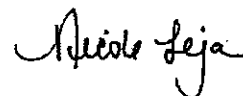
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? <i>* Exceptions are defined by qualifiers</i>	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/25/2011

SPECTRUM

TRC

11 GRIFFIN RD NORTH
WATSONVILLE, CONNECTICUT 06095
TELEPHONE (860) 258-6600
FAX (860) 258-6600

CHAIN OF CUSTODY

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME	
UNITS ORDERED		Duck Island School, Hartford, CT				Date	
INSTRUCTION (SIGNATURE)		TYPE		MATERIAL		Date	
Inspector: [Signature]		Inspector: [Signature]		Inspector: [Signature]		Date: [Signature]	
FIELD SAMPLE NUMBER	DATE	TYPE	MATERIAL	TEST	TEST	TEST	TEST
20A-SC	11/16/11	0010	Concrete	X			250000
21-SC	11/16/11	0011	Asphalt	X			250000
22-SC	11/16/11	0012	Asphalt	X			250000
23-SC	11/16/11	0013	Asphalt	X			250000
24-SC	11/16/11	0014	Asphalt	X			250000
25-SC	11/16/11	0015	Asphalt	X			250000
26-SC	11/16/11	0016	Asphalt	X			250000
27-SC	11/16/11	0017	Asphalt	X			250000
28-SC	11/16/11	0018	Asphalt	X			250000
29-SC	11/16/11	0019	Asphalt	X			250000
30-SC	11/16/11	0020	Asphalt	X			250000
31-SC	11/16/11	0021	Asphalt	X			250000
32-SC	11/16/11	0022	Asphalt	X			250000
33-SC	11/16/11	0023	Asphalt	X			250000
34-SC	11/16/11	0024	Asphalt	X			250000
35-SC	11/16/11	0025	Asphalt	X			250000
36-SC	11/16/11	0026	Asphalt	X			250000
37-SC	11/16/11	0027	Asphalt	X			250000
38-SC	11/16/11	0028	Asphalt	X			250000
39-SC	11/16/11	0029	Asphalt	X			250000
40-SC	11/16/11	0030	Asphalt	X			250000
41-SC	11/16/11	0031	Asphalt	X			250000
42-SC	11/16/11	0032	Asphalt	X			250000
43-SC	11/16/11	0033	Asphalt	X			250000
44-SC	11/16/11	0034	Asphalt	X			250000
45-SC	11/16/11	0035	Asphalt	X			250000
46-SC	11/16/11	0036	Asphalt	X			250000
47-SC	11/16/11	0037	Asphalt	X			250000
48-SC	11/16/11	0038	Asphalt	X			250000
49-SC	11/16/11	0039	Asphalt	X			250000
50-SC	11/16/11	0040	Asphalt	X			250000
51-SC	11/16/11	0041	Asphalt	X			250000
52-SC	11/16/11	0042	Asphalt	X			250000
53-SC	11/16/11	0043	Asphalt	X			250000
54-SC	11/16/11	0044	Asphalt	X			250000
55-SC	11/16/11	0045	Asphalt	X			250000
56-SC	11/16/11	0046	Asphalt	X			250000
57-SC	11/16/11	0047	Asphalt	X			250000
58-SC	11/16/11	0048	Asphalt	X			250000
59-SC	11/16/11	0049	Asphalt	X			250000
60-SC	11/16/11	0050	Asphalt	X			250000
61-SC	11/16/11	0051	Asphalt	X			250000
62-SC	11/16/11	0052	Asphalt	X			250000
63-SC	11/16/11	0053	Asphalt	X			250000
64-SC	11/16/11	0054	Asphalt	X			250000
65-SC	11/16/11	0055	Asphalt	X			250000
66-SC	11/16/11	0056	Asphalt	X			250000
67-SC	11/16/11	0057	Asphalt	X			250000
68-SC	11/16/11	0058	Asphalt	X			250000
69-SC	11/16/11	0059	Asphalt	X			250000
70-SC	11/16/11	0060	Asphalt	X			250000
71-SC	11/16/11	0061	Asphalt	X			250000
72-SC	11/16/11	0062	Asphalt	X			250000
73-SC	11/16/11	0063	Asphalt	X			250000
74-SC	11/16/11	0064	Asphalt	X			250000
75-SC	11/16/11	0065	Asphalt	X			250000
76-SC	11/16/11	0066	Asphalt	X			250000
77-SC	11/16/11	0067	Asphalt	X			250000
78-SC	11/16/11	0068	Asphalt	X			250000
79-SC	11/16/11	0069	Asphalt	X			250000
80-SC	11/16/11	0070	Asphalt	X			250000
81-SC	11/16/11	0071	Asphalt	X			250000
82-SC	11/16/11	0072	Asphalt	X			250000
83-SC	11/16/11	0073	Asphalt	X			250000
84-SC	11/16/11	0074	Asphalt	X			250000
85-SC	11/16/11	0075	Asphalt	X			250000
86-SC	11/16/11	0076	Asphalt	X			250000
87-SC	11/16/11	0077	Asphalt	X			250000
88-SC	11/16/11	0078	Asphalt	X			250000
89-SC	11/16/11	0079	Asphalt	X			250000
90-SC	11/16/11	0080	Asphalt	X			250000
91-SC	11/16/11	0081	Asphalt	X			250000
92-SC	11/16/11	0082	Asphalt	X			250000
93-SC	11/16/11	0083	Asphalt	X			250000
94-SC	11/16/11	0084	Asphalt	X			250000
95-SC	11/16/11	0085	Asphalt	X			250000
96-SC	11/16/11	0086	Asphalt	X			250000
97-SC	11/16/11	0087	Asphalt	X			250000
98-SC	11/16/11	0088	Asphalt	X			250000
99-SC	11/16/11	0089	Asphalt	X			250000
100-SC	11/16/11	0090	Asphalt	X			250000

CT KCP Report and stamp responsible test needed

10/20/11

TRC

21 GLENN FLD NORTH
WINTERHOLM, CALIFORNIA 92383-1005
TEL: 951/407-1005 FAX: 951/407-1005
PROJECT NUMBER: 200-02000
LOCAL: 0001-0001

CHAIN OF CUSTODY

PROJECT NAME		PROJECT NUMBER		LOCAL		LOCAL		LOCAL		LOCAL	
21 GLENN FLD NORTH		200-02000		0001-0001		0001-0001		0001-0001		0001-0001	
FIELD	DATE	TIME	TYPE	NO.	BY	NO.	BY	NO.	BY	NO.	BY
65-5001	3/1/01	1000	Soil	1	TRC	1	TRC	1	TRC	1	TRC
65-5002	3/1/01	1001	Concrete	2	TRC	2	TRC	2	TRC	2	TRC
65-5003	3/1/01	1002	Concrete	3	TRC	3	TRC	3	TRC	3	TRC
65-5004	3/1/01	1003	Concrete	4	TRC	4	TRC	4	TRC	4	TRC
65-5005	3/1/01	1004	Concrete	5	TRC	5	TRC	5	TRC	5	TRC
65-5006	3/1/01	1005	Concrete	6	TRC	6	TRC	6	TRC	6	TRC
65-5007	3/1/01	1006	Concrete	7	TRC	7	TRC	7	TRC	7	TRC
65-5008	3/1/01	1007	Concrete	8	TRC	8	TRC	8	TRC	8	TRC
65-5009	3/1/01	1008	Concrete	9	TRC	9	TRC	9	TRC	9	TRC
65-5010	3/1/01	1009	Concrete	10	TRC	10	TRC	10	TRC	10	TRC
65-5011	3/1/01	1010	Concrete	11	TRC	11	TRC	11	TRC	11	TRC
65-5012	3/1/01	1011	Concrete	12	TRC	12	TRC	12	TRC	12	TRC
65-5013	3/1/01	1012	Concrete	13	TRC	13	TRC	13	TRC	13	TRC
65-5014	3/1/01	1013	Concrete	14	TRC	14	TRC	14	TRC	14	TRC
65-5015	3/1/01	1014	Concrete	15	TRC	15	TRC	15	TRC	15	TRC
65-5016	3/1/01	1015	Concrete	16	TRC	16	TRC	16	TRC	16	TRC
65-5017	3/1/01	1016	Concrete	17	TRC	17	TRC	17	TRC	17	TRC
65-5018	3/1/01	1017	Concrete	18	TRC	18	TRC	18	TRC	18	TRC
65-5019	3/1/01	1018	Concrete	19	TRC	19	TRC	19	TRC	19	TRC
65-5020	3/1/01	1019	Concrete	20	TRC	20	TRC	20	TRC	20	TRC
65-5021	3/1/01	1020	Concrete	21	TRC	21	TRC	21	TRC	21	TRC
65-5022	3/1/01	1021	Concrete	22	TRC	22	TRC	22	TRC	22	TRC
65-5023	3/1/01	1022	Concrete	23	TRC	23	TRC	23	TRC	23	TRC
65-5024	3/1/01	1023	Concrete	24	TRC	24	TRC	24	TRC	24	TRC

PROJECT NAME		PROJECT NUMBER		LOCAL		LOCAL		LOCAL		LOCAL	
21 GLENN FLD NORTH		200-02000		0001-0001		0001-0001		0001-0001		0001-0001	
FIELD	DATE	TIME	TYPE	NO.	BY	NO.	BY	NO.	BY	NO.	BY
65-5025	3/1/01	1024	Concrete	25	TRC	25	TRC	25	TRC	25	TRC
65-5026	3/1/01	1025	Concrete	26	TRC	26	TRC	26	TRC	26	TRC
65-5027	3/1/01	1026	Concrete	27	TRC	27	TRC	27	TRC	27	TRC
65-5028	3/1/01	1027	Concrete	28	TRC	28	TRC	28	TRC	28	TRC
65-5029	3/1/01	1028	Concrete	29	TRC	29	TRC	29	TRC	29	TRC
65-5030	3/1/01	1029	Concrete	30	TRC	30	TRC	30	TRC	30	TRC
65-5031	3/1/01	1030	Concrete	31	TRC	31	TRC	31	TRC	31	TRC
65-5032	3/1/01	1031	Concrete	32	TRC	32	TRC	32	TRC	32	TRC
65-5033	3/1/01	1032	Concrete	33	TRC	33	TRC	33	TRC	33	TRC
65-5034	3/1/01	1033	Concrete	34	TRC	34	TRC	34	TRC	34	TRC
65-5035	3/1/01	1034	Concrete	35	TRC	35	TRC	35	TRC	35	TRC
65-5036	3/1/01	1035	Concrete	36	TRC	36	TRC	36	TRC	36	TRC
65-5037	3/1/01	1036	Concrete	37	TRC	37	TRC	37	TRC	37	TRC
65-5038	3/1/01	1037	Concrete	38	TRC	38	TRC	38	TRC	38	TRC
65-5039	3/1/01	1038	Concrete	39	TRC	39	TRC	39	TRC	39	TRC
65-5040	3/1/01	1039	Concrete	40	TRC	40	TRC	40	TRC	40	TRC
65-5041	3/1/01	1040	Concrete	41	TRC	41	TRC	41	TRC	41	TRC
65-5042	3/1/01	1041	Concrete	42	TRC	42	TRC	42	TRC	42	TRC
65-5043	3/1/01	1042	Concrete	43	TRC	43	TRC	43	TRC	43	TRC
65-5044	3/1/01	1043	Concrete	44	TRC	44	TRC	44	TRC	44	TRC
65-5045	3/1/01	1044	Concrete	45	TRC	45	TRC	45	TRC	45	TRC
65-5046	3/1/01	1045	Concrete	46	TRC	46	TRC	46	TRC	46	TRC
65-5047	3/1/01	1046	Concrete	47	TRC	47	TRC	47	TRC	47	TRC
65-5048	3/1/01	1047	Concrete	48	TRC	48	TRC	48	TRC	48	TRC
65-5049	3/1/01	1048	Concrete	49	TRC	49	TRC	49	TRC	49	TRC
65-5050	3/1/01	1049	Concrete	50	TRC	50	TRC	50	TRC	50	TRC

TRC

11 GARDEN RD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-6607
FAX (860) 298-6609

CHAIN OF CUSTODY

PROJECT NUMBER		PROJECT NAME		PARA-METER		LAB TO E	
1111111111		Quirk Middle School, Hartford, CT				<input type="checkbox"/> Soil <input type="checkbox"/> Air <input type="checkbox"/> Water	
TESTER (OWNER)		(PRINTER)					
INSPECTOR (ENGINEER)		Inspector Paulina de Mello-Knapik					
FIELD SAMPLE NUMBER	DATE	TIME	MATERIAL			TESTER	REMARKS
			TYPE	IN	OUT		
14-01	3/10/11	11:05	Concrete	X		23.50%	2.5
15-01	3/10/11	11:06	Concrete	X			2.6
16-01	3/10/11	11:11	Concrete	X			7.7
17-01	3/10/11	11:14	Concrete	X			2.9
18-01	3/10/11	11:21	Concrete	X			2.9
19-01	3/10/11	11:25	Concrete	X			3.0
20-01	3/10/11	11:34	Concrete	X			3.1
21-01	3/10/11	11:39	Concrete	X			3.2
22-01	3/10/11	11:44	Concrete	X			3.3
23-01	3/10/11	11:50	Concrete	X			3.4
24-01	3/10/11	11:58	Concrete	X			3.5
25-01	3/10/11	12:07	Concrete	X			3.6

Investigated by (Signature)		Investigated by (Signature)		Date		Printed or Signature	
[Signature]		[Signature]		3/24/11		[Signature]	
Name		Name		Time		Time	
3:20 PM		1:00 PM		3:24 PM		12:30 PM	
Inspector Paulina		Inspector Paulina					
CT RLP Report and samples responsible firm needed				Page 1 of 1			

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一、**目的**：通过本实验，使学生掌握：

APPENDIX B

Public Communication Procedure

Insert Date Here

Draft Notification to Parents, Teachers and Employee Organizations

International Baccalaureate School (formerly Thomas J. Quirk Middle School) East Building and Connectors will commence a demolition and renovation program starting on *[insert date]*. During this program there will be removal of asbestos containing materials, and PCB-contaminated building materials at the school.

The asbestos and PCB abatement programs were authorized by the State of Connecticut Departments of Public Health (CT DPH) and Environmental Protection (CT DEP), the United States Environmental Protection Agency Region 1 (EPA) and Connecticut Schools Facility Unit after careful planning and thorough review.

Workers and students will not use the International Baccalaureate School while removal and abatement is ongoing. The School will reopen after the asbestos and PCB abatement work along with the planned renovations are completed.

The asbestos and PCB abatement work will be performed by a Connecticut Department of Public Health licensed asbestos abatement contractor and personnel experienced in the handling of PCB contaminated materials, *insert contractor name here*. Asbestos and PCB abatement work will be monitored continuously by *insert contractor name here*, an independent environmental consultant hired by the State to conduct inspection and testing during asbestos and PCB abatement activities.

As required by the CT DPH, CT DEP and EPA, this notification is being sent to parents, teachers, and employee organizations at the International Baccalaureate School. Any questions about the project may be directed to, *insert contact name here*.

We appreciate your patience and understanding during this process.

Sincerely,

insert contact name here.

(please turn over →)

State of Connecticut
Department of Public Health

Division of Environmental Health
410 Capitol Avenue, MS#51AIR
Hartford, CT 06134-0308
860-509-7367

State of Connecticut
Department of Environmental Protection

79 Elm Street
Hartford, CT 06106
860-424-3329

Asbestos/PCB Consultant:

To be determined
Street Address
City, State Zip Code
Contact Number

Asbestos/PCB Abatement Contractor:

To be determined
Street Address
City, State Zip Code
Contact Number

cc:

insert contact name here, Mayor, City of Hartford
insert contact name here, General Manager, City of Hartford
insert contact name here, Superintendent of Schools
insert contact name here, Principal, International Baccalaureate School

APPENDIX C

EPA Region 1 SOP

REGION I, EPA-NEW ENGLAND

DRAFT STANDARD OPERATING PROCEDURE FOR SAMPLING CONCRETE IN THE FIELD



U.S. EPA-NEW ENGLAND
Region I
Quality Assurance Unit Staff
Office of Environmental Measurement and Evaluation

Prepared by: *Alan W Peterson*
Quality Assurance Chemist

Date: 12/30/97

Reviewed by: *Andrew Beliveau*
Senior Technical Specialist

Date: 12/30/97

Approved by: *Nancy Barmakian*
Branch Chief

Date: 12/30/97

Region I, EPA New England

Standard Operating Procedure for Sampling Concrete in the Field

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Region I, EPA New England

Standard Operating Procedure for Sampling Concrete in the Field

1.0 Scope and Application

The following Standard Operating Procedure (SOP) describes a concrete sampling technique which uses an impact hammer drill to generate a uniform, finely ground, powder which is easily homogenized, extracted and analyzed. This procedure is primarily geared at providing enough sample for one or two different analyses at a time. That is, the time required to generate sufficient sample for a full sweep of analyses may be impractical. The concrete powder is suitable for all types of environmental analyses, with the exception of volatile compounds, and may be analyzed in the field or at a fixed laboratory. This procedure is applicable for the collection of samples from concrete floors, walls, and ceilings.

The impact hammer drill is far less labor intensive than previous techniques using coring devices, or hammers and chisels. It allows for easy selection of sample location and sample depth. Not only can the project planner control the depth to sample into the concrete, from surface samples (0 - ½ inch) down to a core of the entire slab, but the technique can also be modified to collect samples at discrete depths within the concrete slab.

Another issue with concrete sampling is the fact that the amount of time spent drilling translates into the weight of sample produced. Thus, to maximize sampling time, it is important to know the minimum amount of sample required for each analysis. To do this, the project planner should take the following steps: 1) Use the Data Quality Objective (DQO) process and familiarity with the site to develop the objectives of the sampling project and the depth(s) of sample to be collected. 2) Review the site history and any previous data collected to determine possible contaminants of concern. 3) Establish the action levels for those possible contaminants and determine the appropriate analytical methods (both field and/or fixed laboratory) to meet the DQOs of the project. 4) Based on the detection limits of these methods, determine the amount of sample required for each analysis and the total sample weight required for each sample location (including quality control samples).

As with any environmental data collection project, all aspects of a concrete sampling episode should be well thought out, prior to going out in the field, and thoroughly described in a Quality Assurance Project Plan (QAPP). The QAPP should clearly state the DQOs of the project and document a complete Quality Assurance/Quality Control program to reconcile the data generated with the established DQOs. For more information on these subjects, refer to EPA documents QA/R-5, EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations, and QA/G-4, Guidance for the Data Quality Objective Process.

2.0 Method Summary

A one-inch diameter carbide drill bit is used in a rotary impact hammer drill to generate a fine concrete powder suitable for analysis. The powder is placed in a sample container and homogenized for field or fixed laboratory analysis. The procedure can be used to sample a single depth into the concrete, or may be modified to sample the concrete at distinctly different depth zones. The modified depth sampling procedure is designed to minimize any cross contamination between the sampling zones. If different

sampling depths are required, two different diameter drill bits and a vacuum sampling apparatus are employed.

3.0 Health and Safety

Eye and hearing protection are required at all times during sample drilling. A small amount of dust is generated during the drilling process. Proper respiratory protection and/or a dust control system must be in place at all times during sampling.

4.0 Interferences and Potential Problems

Since this sampling technique produces a finely ground uniform powder, physical matrix effects from variations in the sample consistency (i.e., particle size, uniformity, homogeneity, and surface condition) are minimized. Matrix spike analysis of a sample is highly recommended to monitor for any matrix related interferences.

As stated in Section 1.0 above, this sampling procedure is not recommended for volatile organic compound (VOC) analysis. The combination of heat generated during drilling and the exposure of a large amount of surface area will greatly reduce VOC recovery. If low boiling point semi-volatile compounds (i.e., naphthalene) are being analyzed, then the drill speed should be reduced to minimize heat build-up.

5.0 Equipment and Supplies

5.1 Single Depth Concrete Sampling

- 5.1.1 Rotary impact hammer drill
- 5.1.2 1-inch diameter carbide drill bits
- 5.1.3 Stainless steel scoopulas
- 5.1.4 Stainless steel spoonulas (for collecting sample in deeper holes, >2-inches)
- 5.1.5 Rectangular aluminum pans (to catch concrete during wall and ceiling sampling)
- 5.1.6 Gasoline powered generator (if alternative power source is required)

5.2 Multiple Depth Sampling (in addition to all the above)

- 5.2.1 ½ inch diameter carbide drill bits
- 5.2.2 Vacuum/sample trap assembly (see Section 7.2 and Figure 1)
 - 5.2.2.1 Vacuum pump
 - 5.2.2.2 2-hole rubber stopper
 - 5.2.2.3 Glass tubing (to fit stopper)
 - 5.2.2.4 Large glass test tubes, or Erlenmeyer flasks, for sample trap (several are suggested)
 - 5.2.2.5 Polyethylene tubing for trap inlet (Tygon tubing may be used for the trap outlet)
 - 5.2.2.6 Pasture pipets
 - 5.2.2.7 Pipe cleaners
 - 5.2.2.8 In-line dust filter (glass fiber filter, or equivalent)

Sample Identification

49-SC

SB25773-49

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

15-Mar-11 00:00

Received

17-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		µg/kg dry	62.5	1	SW846 8082A	18-Mar-11	24-Mar-11	TG	1104724	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	62.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	93			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	68			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.1		%		1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690
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This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit,

Page 53 of 62

Sample Identification

50-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25773-50	181125.1000.0000	Concrete	15-Mar-11 00:00	17-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		µg/kg dry	65.6	1	SW846 8082A	18-Mar-11	21-Mar-11	SM	1104796	X
11104-28-2	Aroclor-1221	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
53469-21-8	Aroclor-1242	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
11098-82-5	Aroclor-1260	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		µg/kg dry	65.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	113			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.6		%			1	SM2540 G Mod.	17-Mar-11	17-Mar-11	BD	1104690	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104683 - SW846 3540C										
<u>Blank (1104683-BLK1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	BRL		µg/kg wet	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1221	BRL		µg/kg wet	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1232	BRL		µg/kg wet	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1242	BRL		µg/kg wet	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1248	BRL		µg/kg wet	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1254	BRL		µg/kg wet	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1260	BRL		µg/kg wet	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1262	BRL		µg/kg wet	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1268	BRL		µg/kg wet	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.8		µg/kg wet		20.0		104	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	24.1		µg/kg wet		20.0		121	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.4		µg/kg wet		20.0		77	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.5		µg/kg wet		20.0		68	30-150		
<u>LCS (1104683-BS1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	211		µg/kg wet	20.0	250		85	50-140		
Aroclor-1016 [2C]	232		µg/kg wet	20.0	250		93	50-140		
Aroclor-1260	157		µg/kg wet	20.0	250		63	50-140		
Aroclor-1260 [2C]	175		µg/kg wet	20.0	250		70	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.2		µg/kg wet		20.0		106	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		µg/kg wet		20.0		114	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.9		µg/kg wet		20.0		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.8		µg/kg wet		20.0		69	30-150		
<u>LCS Dup (1104683-BSD1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	213		µg/kg wet	20.0	250		85	50-140	0.9	30
Aroclor-1016 [2C]	234		µg/kg wet	20.0	250		93	50-140	0.6	30
Aroclor-1260	161		µg/kg wet	20.0	250		64	50-140	2	30
Aroclor-1260 [2C]	183		µg/kg wet	20.0	250		73	50-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.6		µg/kg wet		20.0		103	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.1		µg/kg wet		20.0		111	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.3		µg/kg wet		20.0		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.4		µg/kg wet		20.0		77	30-150		
Batch 1104688 - SW846 3540C										
<u>Blank (1104688-BLK1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1016	BRL		µg/kg wet	66.7						
Aroclor-1016 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1221	BRL		µg/kg wet	66.7						
Aroclor-1221 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1232	BRL		µg/kg wet	66.7						
Aroclor-1232 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1242	BRL		µg/kg wet	66.7						
Aroclor-1242 [2C]	BRL		µg/kg wet	66.7						

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* Reportable Detection Limit BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104688 - SW846 3540C										
<u>Blank (1104688-BLK1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1248	BRL		µg/kg wet	66.7						
Aroclor-1248 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1254	BRL		µg/kg wet	66.7						
Aroclor-1254 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1260	BRL		µg/kg wet	66.7						
Aroclor-1260 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1262	BRL		µg/kg wet	66.7						
Aroclor-1262 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1268	BRL		µg/kg wet	66.7						
Aroclor-1268 [2C]	BRL		µg/kg wet	66.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	87.7		µg/kg wet		66.7		132	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.3		µg/kg wet		66.7		97	30-150		
Surrogate: Decachlorobiphenyl (Sr)	68.7		µg/kg wet		66.7		103	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	75.7		µg/kg wet		66.7		114	30-150		
<u>LCS (1104688-BS1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1016	558		µg/kg wet	66.7	833		67	50-140		
Aroclor-1016 [2C]	666		µg/kg wet	66.7	833		80	50-140		
Aroclor-1260	514		µg/kg wet	66.7	833		62	50-140		
Aroclor-1260 [2C]	525		µg/kg wet	66.7	833		63	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	57.7		µg/kg wet		66.7		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	59.7		µg/kg wet		66.7		89	30-150		
Surrogate: Decachlorobiphenyl (Sr)	48.3		µg/kg wet		66.7		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	51.7		µg/kg wet		66.7		78	30-150		
<u>LCS Dup (1104688-BSD1)</u>					<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1016	781	QR2	µg/kg wet	66.7	833		94	50-140	33	30
Aroclor-1016 [2C]	727		µg/kg wet	66.7	833		87	50-140	9	30
Aroclor-1260	708	QR2	µg/kg wet	66.7	833		85	50-140	32	30
Aroclor-1260 [2C]	649		µg/kg wet	66.7	833		78	50-140	21	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	85.3		µg/kg wet		66.7		128	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	61.7		µg/kg wet		66.7		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	73.3		µg/kg wet		66.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	62.7		µg/kg wet		66.7		94	30-150		
<u>Duplicate (1104688-DUP1)</u>					<u>Source: SB25773-17</u>		<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>			
Aroclor-1016	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1221	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1232	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1242	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1248	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1254	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1260	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1260 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1262	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry	67.6		BRL				40
Aroclor-1268	BRL		µg/kg dry	67.6		BRL				40

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104688 - SW846 3540C										
<u>Duplicate (1104688-DUP1)</u>			<u>Source: SB25773-17</u>		<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1268 [2C]	BRL		µg/kg dry	67.6		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	55.8		µg/kg dry		67.6		82	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	49.4		µg/kg dry		67.6		73	30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.4		µg/kg dry		67.6		76	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	58.2		µg/kg dry		67.6		86	30-150		
<u>Matrix Spike (1104688-MS1)</u>			<u>Source: SB25773-17</u>		<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1016	498		µg/kg dry	66.7	834	BRL	60	40-135		
Aroclor-1016 [2C]	503		µg/kg dry	66.7	834	BRL	60	40-135		
Aroclor-1260	677		µg/kg dry	66.7	834	BRL	81	40-135		
Aroclor-1260 [2C]	698		µg/kg dry	66.7	834	BRL	84	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	42.1		µg/kg dry		66.7		63	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	35.4		µg/kg dry		66.7		53	30-150		
Surrogate: Decachlorobiphenyl (Sr)	62.1		µg/kg dry		66.7		93	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	53.1		µg/kg dry		66.7		80	30-150		
<u>Matrix Spike Dup (1104688-MSD1)</u>			<u>Source: SB25773-17</u>		<u>Prepared: 17-Mar-11 Analyzed: 19-Mar-11</u>					
Aroclor-1016	437		µg/kg dry	66.2	828	BRL	53	40-135	12	30
Aroclor-1016 [2C]	455		µg/kg dry	66.2	828	BRL	55	40-135	9	30
Aroclor-1260	701		µg/kg dry	66.2	828	BRL	85	40-135	4	30
Aroclor-1260 [2C]	686		µg/kg dry	66.2	828	BRL	83	40-135	0.9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	38.4		µg/kg dry		66.2		58	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	35.8		µg/kg dry		66.2		54	30-150		
Surrogate: Decachlorobiphenyl (Sr)	63.9		µg/kg dry		66.2		96	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	59.6		µg/kg dry		66.2		90	30-150		
Batch 1104724 - SW846 3540C										
<u>Blank (1104724-BLK1)</u>			<u>Prepared: 18-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	BRL		µg/kg wet	66.7						
Aroclor-1016 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1221	BRL		µg/kg wet	66.7						
Aroclor-1221 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1232	BRL		µg/kg wet	66.7						
Aroclor-1232 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1242	BRL		µg/kg wet	66.7						
Aroclor-1242 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1248	BRL		µg/kg wet	66.7						
Aroclor-1248 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1254	BRL		µg/kg wet	66.7						
Aroclor-1254 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1260	BRL		µg/kg wet	66.7						
Aroclor-1260 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1262	BRL		µg/kg wet	66.7						
Aroclor-1262 [2C]	BRL		µg/kg wet	66.7						
Aroclor-1268	BRL		µg/kg wet	66.7						
Aroclor-1268 [2C]	BRL		µg/kg wet	66.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	45.0		µg/kg wet		66.7		67	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	52.7		µg/kg wet		66.7		79	30-150		
Surrogate: Decachlorobiphenyl (Sr)	41.7		µg/kg wet		66.7		62	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	32.0		µg/kg wet		66.7		48	30-150		
<u>LCS (1104724-BS1)</u>			<u>Prepared: 18-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	650		µg/kg wet	66.7	833		78	50-140		
Aroclor-1016 [2C]	757		µg/kg wet	66.7	833		91	50-140		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104724 - SW846 3540C										
<u>LCS (1104724-BS1)</u>				Prepared: 18-Mar-11 Analyzed: 24-Mar-11						
Aroclor-1260	541		µg/kg wet	66.7	833		65	50-140		
Aroclor-1260 [2C]	539		µg/kg wet	66.7	833		65	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	55.7		µg/kg wet		66.7		84	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.7		µg/kg wet		66.7		97	30-150		
Surrogate: Decachlorobiphenyl (Sr)	48.0		µg/kg wet		66.7		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	41.0		µg/kg wet		66.7		62	30-150		
<u>LCS Dup (1104724-BSD1)</u>				Prepared: 18-Mar-11 Analyzed: 24-Mar-11						
Aroclor-1016	732		µg/kg wet	66.7	833		88	50-140	12	30
Aroclor-1016 [2C]	776		µg/kg wet	66.7	833		93	50-140	2	30
Aroclor-1260	611		µg/kg wet	66.7	833		73	50-140	12	30
Aroclor-1260 [2C]	537		µg/kg wet	66.7	833		64	50-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	61.3		µg/kg wet		66.7		92	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	65.0		µg/kg wet		66.7		97	30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.7		µg/kg wet		66.7		78	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	43.7		µg/kg wet		66.7		66	30-150		
<u>Duplicate (1104724-DUP1)</u>				Source: SB25773-30		Prepared: 18-Mar-11 Analyzed: 24-Mar-11				
Aroclor-1016	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1221	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1232	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1242	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1248	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1254	144		µg/kg dry	59.6		116			21	40
Aroclor-1254 [2C]	139		µg/kg dry	59.6		126			10	40
Aroclor-1260	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1260 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1262	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1268	BRL		µg/kg dry	59.6		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry	59.6		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.9		µg/kg dry		59.6		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	57.2		µg/kg dry		59.6		96	30-150		
Surrogate: Decachlorobiphenyl (Sr)	45.0		µg/kg dry		59.6		76	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	41.4		µg/kg dry		59.6		70	30-150		
<u>Matrix Spike (1104724-MS1)</u>				Source: SB25773-30		Prepared: 18-Mar-11 Analyzed: 24-Mar-11				
Aroclor-1016	580		µg/kg dry	52.2	652	BRL	89	40-135		
Aroclor-1016 [2C]	649		µg/kg dry	52.2	652	BRL	99	40-135		
Aroclor-1260	517		µg/kg dry	52.2	652	BRL	79	40-135		
Aroclor-1260 [2C]	506		µg/kg dry	52.2	652	BRL	78	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	46.7		µg/kg dry		52.2		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	48.5		µg/kg dry		52.2		93	30-150		
Surrogate: Decachlorobiphenyl (Sr)	37.6		µg/kg dry		52.2		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	36.0		µg/kg dry		52.2		69	30-150		
<u>Matrix Spike Dup (1104724-MSD1)</u>				Source: SB25773-30		Prepared: 18-Mar-11 Analyzed: 24-Mar-11				
Aroclor-1016	712		µg/kg dry	63.4	793	BRL	90	40-135	0.9	30
Aroclor-1016 [2C]	756		µg/kg dry	63.4	793	BRL	95	40-135	4	30

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104724 - SW846 3540C										
<u>Matrix Spike Dup (1104724-MSD1)</u>				<u>Source: SB25773-30</u>		<u>Prepared: 18-Mar-11 Analyzed: 24-Mar-11</u>				
Aroclor-1260	617		µg/kg dry	63.4	793	BRL	78	40-135	2	30
Aroclor-1260 [2C]	605		µg/kg dry	63.4	793	BRL	76	40-135	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.5		µg/kg dry		63.4		89	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	61.9		µg/kg dry		63.4		97	30-150		
Surrogate: Decachlorobiphenyl (Sr)	49.5		µg/kg dry		63.4		78	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	42.2		µg/kg dry		63.4		66	30-150		
Batch 1104796 - SW846 3540C										
<u>Blank (1104796-BLK1)</u>				<u>Prepared: 18-Mar-11 Analyzed: 21-Mar-11</u>						
Aroclor-1016	BRL		µg/kg wet	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1221	BRL		µg/kg wet	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1232	BRL		µg/kg wet	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1242	BRL		µg/kg wet	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1248	BRL		µg/kg wet	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1254	BRL		µg/kg wet	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1260	BRL		µg/kg wet	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1262	BRL		µg/kg wet	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet	20.0						
Aroclor-1268	BRL		µg/kg wet	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	22.7		µg/kg wet		20.0		114	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	17.4		µg/kg wet		20.0		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.0		µg/kg wet		20.0		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.2		µg/kg wet		20.0		71	30-150		
<u>LCS (1104796-BS1)</u>				<u>Prepared: 18-Mar-11 Analyzed: 21-Mar-11</u>						
Aroclor-1016	226		µg/kg wet	20.0	250		90	50-140		
Aroclor-1016 [2C]	223		µg/kg wet	20.0	250		89	50-140		
Aroclor-1260	235		µg/kg wet	20.0	250		94	50-140		
Aroclor-1260 [2C]	212		µg/kg wet	20.0	250		85	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.5		µg/kg wet		20.0		103	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.2		µg/kg wet		20.0		91	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.3		µg/kg wet		20.0		117	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.1		µg/kg wet		20.0		86	30-150		
<u>LCS Dup (1104796-BSD1)</u>				<u>Prepared: 18-Mar-11 Analyzed: 21-Mar-11</u>						
Aroclor-1016	220		µg/kg wet	20.0	250		88	50-140	3	30
Aroclor-1016 [2C]	219		µg/kg wet	20.0	250		88	50-140	2	30
Aroclor-1260	241		µg/kg wet	20.0	250		96	50-140	2	30
Aroclor-1260 [2C]	220		µg/kg wet	20.0	250		88	50-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.4		µg/kg wet		20.0		102	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.0		µg/kg wet		20.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.1		µg/kg wet		20.0		116	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.8		µg/kg wet		20.0		84	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104690 - General Preparation										
<u>Duplicate (1104690-DUP1)</u>				<u>Source: SB25773-33</u>		<u>Prepared & Analyzed: 17-Mar-11</u>				
% Solids	97.9		%			97.9			0.04	20
Batch 1104696 - General Preparation										
<u>Duplicate (1104696-DUP1)</u>				<u>Source: SB25773-01</u>		<u>Prepared & Analyzed: 17-Mar-11</u>				
% Solids	82.3		%			77.4			6	20
Batch 1104699 - General Preparation										
<u>Duplicate (1104699-DUP1)</u>				<u>Source: SB25773-21</u>		<u>Prepared & Analyzed: 17-Mar-11</u>				
% Solids	98.0		%			98.3			0.3	20

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Nicole Leja
Rebecca Merz

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: Quirk Middle School - Hartford, CT

Project Number: 181125.1000.0000

Sampling Date(s):

3/15/2011

Laboratory Sample ID(s):

SB25773-01 through SB25773-50

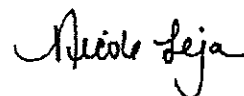
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	Yes	✓ No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? <small>* Exceptions are defined by qualifiers</small>	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/24/2011

TRC

21 GRIFFIN RD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6399

CHAIN OF CUSTODY

SB 25773 Bm

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME			
181125.1000.0000		Quirk Middle School, Hartford, CT				24hr	48hr	3day	5day
INSPECTOR: (SIGNATURE)		(PRINTED)		EPA 8082 (3540)					
Jennifer Peshka		Jennifer Peshka & Hilton Hernandez							
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		MATERIAL				
			COMP	GRAB					
01-Soil	3/15/11	1131	X		Soil	X			
02-SC	3/15/11	1132	X		Asphalt	X			
03-SC	3/15/11	1140	X		Asphalt	X			
04-SC	3/15/11	1150	X		Asphalt	X			
05-SC	3/15/11	1134	X		Asphalt	X			
06-SC	3/15/11	1107	X		Concrete	X			
07-SC	3/15/11	1114	X		Concrete	X			
08-SC	3/15/11	1200	X		Asphalt	X			
09-SC	3/15/11	1207	X		Asphalt	X			
10-SC	3/15/11	1209	X		Asphalt	X			
11-SC	3/15/11	1212	X		Asphalt	X			
12-SC	3/15/11	1214	X		Concrete	X			

Relinquished by: (Signature)		Date:	Received by: (Signature)		Date:	Relinquished by: (Signature)		Date:	Received by: (Signature)	
Jennifer Peshka		3/16/11	D. Wash		3/17/11	D. Wash		3/17/11	D. Wash	
(Printed)		Time: 1316	(Printed)		Time: 1:22	(Printed)		Time: 1:22	(Printed)	

PO# C181125

Page 1 of 5

Temp 193C 100




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CHAIN OF CUSTODY

SB 25773

By

PROJECT NUMBER 181125.1000.0000		PROJECT NAME Quirk Middle School, Hartford, CT		PARAMETERS		TURNAROUND TIME	
						24hr	48hr
						X	X
							5day
INSPECTOR: (SIGNATURE) 		INSPECTOR: (PRINTED) Jennifer Peshka & Hilton Hernandez		EPA 8062 (3540)			
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	COMP	MATERIAL		
13-sc	3/15/11		X	X	Asphalt		
14-sc	3/15/11		X	X	Asphalt		
15-sc	3/15/11		X	X	Concrete		
16-sc	3/15/11		X	X	Concrete		
17-sc	3/15/11		X	X	Concrete		
18-sc	3/15/11		X	X	Concrete		
19-sc	3/15/11		X	X	Concrete		
20-sc	3/15/11		X	X	Concrete		
21-sc	3/15/11		X	X	Concrete		
22-sc	3/15/11		X	X	Concrete		
23-sc	3/15/11		X	X	Concrete		
24-sc	3/15/11		X	X	Soil		
						25773-13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	
						21	
						22	
						23	
						24	
Relinquished by: (Signature) 		Date: 3/16/11		Received by: (Signature) 		Date: 3/17/11	
(Printed) Jennifer Peshka		Time: 1316		(Printed) JPC		Time: 1:22	
				(Printed) JPC		(Printed) JPC	

TEMP 10.3C

TRC

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CHAIN OF CUSTODY

SB25773

GR

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME	
181125.1000.0000		Quirk Middle School, Hartford, CT				24hr 48hr 3day 5day	
INSPECTOR: (SIGNATURE)		(PRINTED)		EPA 8082 (3540)			
Jennifer Peshka		Jennifer Peshka & Hilton Hernandez					
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		MATERIAL		
			COMP	GRAB			
25-sc	3/15/11		X		Asphalt	X	25773-25
26-sc	3/15/11		X		Asphalt	X	26
27-sc	3/15/11		X		Soil	X	27
28-sc	3/15/11		X		Soil	X	28
29-sc	3/15/11		X		Concrete	X	29
30-sc	3/15/11		X		Concrete	X	30
31-sc	3/15/11		X		Concrete	X	31
32-sc	3/15/11		X		Concrete	X	32
33-sc	3/15/11		X		Concrete	X	33
34-sc	3/15/11		X		Concrete	X	34
35-sc	3/15/11		X		Concrete	X	35
36-sc	3/15/11		X		Concrete	X	36

Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)	
Date:	3/16/11	Date:	3/16/11	Date:	3/16/11	Date:	3/16/11
(Printed)	Jennifer Peshka	(Printed)	1316	(Printed)	DEC	(Printed)	11/2

TEMP: 10.3C

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WINDSOR, CONNECTICUT 06095
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CHAIN OF CUSTODY

SB 25773

PROJECT NUMBER		PROJECT NAME		PARAMETERS		LAB ID #			
181125.1000.0000		Quirk Middle School, Hartford, CT				TURNAROUND TIME			
						24hr	48hr	3day	5day
INSPECTOR: (SIGNATURE)		(PRINTED)							
Jennifer Peshka		Jennifer Peshka & Hilton Hernandez							
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		MATERIAL	EPA 8082 (3540)	X	X	X
			COMP	GRAB					
37-sc	3/15/11		X		Concrete		X		
38-sc	3/15/11		X		Concrete		X		
39-sc	3/15/11		X		Concrete		X		
40-sc	3/15/11		X		Asphalt		X		
41-sc	3/15/11		X		Asphalt		X		
42-sc	3/15/11		X		Asphalt		X		
43-sc	3/15/11		X		Asphalt		X		
44-sc	3/15/11		X		Asphalt		X		
45-sc	3/15/11		X		Asphalt		X		
46-sc	3/15/11		X		Asphalt		X		
47-sc	3/15/11		X		Asphalt		X		
48-sc	3/15/11		X		Concrete		X		

25773-37
38
39
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41
42
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44
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46
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48

Relinquished by: (Signature)		Received by: (Signature)		Relinquished by: (Signature)		Received by: (Signature)	
Date:	3/16/11	Date:	3/16/11	Date:	3/16/11	Date:	3/16/11
Time:	1316	Time:	1316	Time:	1316	Time:	1316
Jennifer Peshka		DEC		DEC		Ducan	

Page 4 of 5

TRC

21 GRIFFIN RD NORTH
WINDSOR, CONNECTICUT 06095
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CHAIN OF CUSTODY

SB 25773 BY

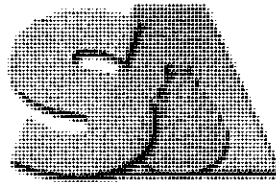
PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME	
181125.1000.0000		Quirk Middle School, Hartford, CT				24hr 48hr 3day 5day	
INSPECTOR: (SIGNATURE)		(PRINTED)					
Inspector		Jennifer Peshka & Hilton Hernandez					
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		MATERIAL	EPA 8082 (3540)	
			COMP	GRAB			
49-sc	3/15/11		X		Concrete	X	25773-49
50-sc	3/15/11		X		Concrete	X	L 50

Relinquished by: (Signature)		Date:		Received by: (Signature)		Date:		Received by: (Signature)	
(Printed)		Time:		(Printed)		Time:		(Printed)	
Jennifer Peshka		3/16/11		JPP		3/17/11		D. Ward	
		1316				4:22		3/17/11	
Page 5 of 5									

Temp: 10.3C

Surface Cover 50-103

Report Date:
25-Mar-11 14:37



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
- ☐ Re-Issued Report
- ☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Jen Peshka

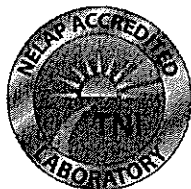
Project: Quirk Middle School - Hartford, CT
Project #: 181125.1000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB25896-01	50A-SC	Concrete	18-Mar-11 09:10	21-Mar-11 12:35
SB25896-02	51-SC	Asphalt	18-Mar-11 09:11	21-Mar-11 12:35
SB25896-03	52-SC	Asphalt	18-Mar-11 09:15	21-Mar-11 12:35
SB25896-04	53-SC	Asphalt	18-Mar-11 09:18	21-Mar-11 12:35
SB25896-05	54-SC	Asphalt	18-Mar-11 09:21	21-Mar-11 12:35
SB25896-06	55-SC	Asphalt	18-Mar-11 09:24	21-Mar-11 12:35
SB25896-07	56-SC	Asphalt	18-Mar-11 09:27	21-Mar-11 12:35
SB25896-08	57-SC	Asphalt	18-Mar-11 09:32	21-Mar-11 12:35
SB25896-09	58-Soil	Soil	18-Mar-11 09:36	21-Mar-11 12:35
SB25896-10	59-Soil	Soil	18-Mar-11 09:39	21-Mar-11 12:35
SB25896-11	60-Soil	Soil	18-Mar-11 09:43	21-Mar-11 12:35
SB25896-12	61-Soil	Soil	18-Mar-11 09:48	21-Mar-11 12:35
SB25896-13	62-Soil	Soil	18-Mar-11 09:55	21-Mar-11 12:35
SB25896-14	63-sc	Concrete	18-Mar-11 10:01	21-Mar-11 12:35
SB25896-15	64-sc	Concrete	18-Mar-11 10:07	21-Mar-11 12:35
SB25896-16	65-sc	Concrete	18-Mar-11 10:12	21-Mar-11 12:35
SB25896-17	66-sc	Concrete	18-Mar-11 10:18	21-Mar-11 12:35
SB25896-18	67-sc	Concrete	18-Mar-11 10:23	21-Mar-11 12:35
SB25896-19	68-sc	Concrete	18-Mar-11 10:28	21-Mar-11 12:35
SB25896-20	69-sc	Concrete	18-Mar-11 10:33	21-Mar-11 12:35
SB25896-21	70-sc	Concrete	18-Mar-11 10:39	21-Mar-11 12:35
SB25896-22	71-sc	Concrete	18-Mar-11 10:45	21-Mar-11 12:35
SB25896-23	72-sc	Concrete	18-Mar-11 10:51	21-Mar-11 12:35
SB25896-24	73-sc	Concrete	18-Mar-11 10:57	21-Mar-11 12:35
SB25896-25	74-sc	Concrete	18-Mar-11 11:01	21-Mar-11 12:35
SB25896-26	75-sc	Concrete	18-Mar-11 11:08	21-Mar-11 12:35
SB25896-27	76-sc	Concrete	18-Mar-11 11:13	21-Mar-11 12:35
SB25896-28	77-sc	Concrete	18-Mar-11 11:18	21-Mar-11 12:35
SB25896-29	78-sc	Concrete	18-Mar-11 11:23	21-Mar-11 12:35
SB25896-30	79-sc	Concrete	18-Mar-11 11:29	21-Mar-11 12:35
SB25896-31	80-sc	Concrete	18-Mar-11 11:34	21-Mar-11 12:35
SB25896-32	81-sc	Concrete	18-Mar-11 11:39	21-Mar-11 12:35
SB25896-33	82-sc	Concrete	18-Mar-11 11:44	21-Mar-11 12:35
SB25896-34	83-sc	Concrete	18-Mar-11 11:50	21-Mar-11 12:35
SB25896-35	84-sc	Concrete	18-Mar-11 11:58	21-Mar-11 12:35
SB25896-36	85-sc	Concrete	18-Mar-11 12:03	21-Mar-11 12:35
SB25896-37	86-sc	Concrete	18-Mar-11 12:08	21-Mar-11 12:35

SB25896-38	87-sc	Concrete	18-Mar-11 12:40	21-Mar-11 12:35
SB25896-39	88-sc	Concrete	18-Mar-11 12:45	21-Mar-11 12:35
SB25896-40	89-sc	Concrete	18-Mar-11 12:49	21-Mar-11 12:35
SB25896-41	90-sc	Concrete	18-Mar-11 12:54	21-Mar-11 12:35
SB25896-42	91-sc	Concrete	18-Mar-11 13:02	21-Mar-11 12:35
SB25896-43	92-sc	Concrete	18-Mar-11 13:08	21-Mar-11 12:35
SB25896-44	93-sc	Concrete	18-Mar-11 13:13	21-Mar-11 12:35
SB25896-45	94-sc	Concrete	18-Mar-11 13:18	21-Mar-11 12:35
SB25896-46	95-sc	Concrete	18-Mar-11 13:24	21-Mar-11 12:35
SB25896-47	96-sc	Concrete	18-Mar-11 13:30	21-Mar-11 12:35
SB25896-48	97-Soil	Soil	18-Mar-11 13:33	21-Mar-11 12:35
SB25896-49	98-Soil	Soil	18-Mar-11 13:38	21-Mar-11 12:35
SB25896-50	99-Soil	Soil	18-Mar-11 13:44	21-Mar-11 12:35
SB25896-51	100-Soil	Soil	18-Mar-11 13:50	21-Mar-11 12:35
SB25896-52	101-sc	Asphalt	18-Mar-11 13:55	21-Mar-11 12:35
SB25896-53	102-sc	Asphalt	18-Mar-11 14:00	21-Mar-11 12:35
SB25896-54	103-sc	Asphalt	18-Mar-11 14:03	21-Mar-11 12:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 66 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 3.6 degrees Celsius. The samples were transported on ice to the laboratory facility and the temperature was recorded at 0.5 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1104883-MS1 *Source: SB25896-13*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

1104883-MSD1 *Source: SB25896-13*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

Duplicates:

1104885-DUP1 *Source: SB25896-33*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

Samples:

S102218-CCV4

Analyte percent difference is outside individual acceptance criteria (15), but within overall method allowances.

Aroclor-1260 (1) [2C] (15.4%)

This affected the following samples:

100-Soil

101-sc

1104885-BLK1

82-sc

83-sc

84-sc

85-sc

86-sc

87-sc

88-sc

89-sc

90-sc

91-sc

92-sc

93-sc

94-sc

95-sc

96-sc

97-Soil

98-Soil

99-Soil

Sample Identification50A-SC
SB25896-01Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 09:10

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0641	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0922		mg/kg dry	0.0641	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
	[2C]						"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	127			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	122			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	96.0		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

51-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-02	181125.1000.0000	Asphalt	18-Mar-11 09:11	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.264	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	4.01		mg/kg dry	0.264	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.264	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	127			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	106			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.1	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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Sample Identification

52-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-03	181125.1000.0000	Asphalt	18-Mar-11 09:15	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.321	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.836		mg/kg dry	0.321	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.321	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	99			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	113			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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Sample Identification

53-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-04	181125.1000.0000	Asphalt	18-Mar-11 09:18	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.293	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.479		mg/kg dry	0.293	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.293	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	114			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.9	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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Sample Identification54-SC
SB25896-05Client Project #
181125.1000.0000Matrix
AsphaltCollection Date/Time
18-Mar-11 09:21Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.226	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.59		mg/kg dry	0.226	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.226	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.3		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

55-SC	Client Project #	Matrix	Collection Date/Time	Received
SB25896-06	181125.1000.0000	Asphalt	18-Mar-11 09:24	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.277	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.747		mg/kg dry	0.277	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.277	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	81		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	98.7	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

56-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-07	181125.1000.0000	Asphalt	18-Mar-11 09:27	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.149	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.07		mg/kg dry	0.149	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.149	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	76			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.0	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941
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Sample Identification

57-SC	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-08	181125.1000.0000	Asphalt	18-Mar-11 09:32	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.113	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
53489-21-9	Aroclor-1242	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.979		mg/kg dry	0.113	1	"	"	"	"	"	X
11098-82-5	Aroclor-1260	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.113	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	76			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	69			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	94.6		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

58-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-09	181125.1000.0000	Soil	18-Mar-11 09:36	21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0253	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.313		mg/kg dry	0.0253	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0253	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	147			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	127			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	78.3	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

59-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-10	181125.1000.0000	Soil	18-Mar-11 09:39	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0233	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.59		mg/kg dry	0.0233	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0233	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	79.4		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104941	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

60-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-11	181125.1000.0000	Soil	18-Mar-11 09:43	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0278	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.153		mg/kg dry	0.0278	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0278	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	129			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	69.0	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942
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Sample Identification

61-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-12	181125.1000.0000	Soil	18-Mar-11 09:48	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0266	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104882	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.275		mg/kg dry	0.0266	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0266	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	69			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	74.2	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

62-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-13	181125.1000.0000	Soil	18-Mar-11 09:55	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0243	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.22		mg/kg dry	0.0243	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0243	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	81.2	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

63-sc

SB25896-14

Client Project #
181125.1000.0000

Matrix
Concrete

Collection Date/Time
18-Mar-11 10:01

Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0645	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
53469-21-0	Aroclor-1242	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.3	%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

64-sc

SB25896-15

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:07

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0549	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.917		mg/kg dry	0.0549	1	"	"	"	"	"	X
11096-62-5	Aroclor-1260	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification65-sc
SB25896-16Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 10:12Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0660	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
12672-29-5	Aroclor-1248	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.00		mg/kg dry	0.0660	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0660	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	101			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

66-sc

SB25896-17

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:18

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0684	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0684	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	126			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

67-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-18	181125.1000.0000	Concrete	18-Mar-11 10:23	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0586	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.507		mg/kg dry	0.0586	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0586	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118		30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91		30-150 %		"	"	"	"	"	"
	[2C]										
2051-24-3	Decachlorobiphenyl (Sr)	99		30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-150 %		"	"	"	"	"	"

General Chemistry Parameters

% Solids	96.3	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942
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Sample Identification

68-sc

SB25896-19

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:28

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0641	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0641	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942		
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

69-sc

SB25896-20

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:33

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0598	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.0		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

70-sc

SB25896-21

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:39

Received

21-Mar-11

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0630	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.149		mg/kg dry	0.0630	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0630	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.2		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

71-sc

SB25896-22

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:45

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0606	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0606	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	127			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	89			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

72-sc

SB25896-23

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:51

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0599	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0943		mg/kg dry	0.0599	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	111			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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Sample Identification

73-sc

SB25896-24

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 10:57

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0574	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.105		mg/kg dry	0.0574	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0574	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	116			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.1	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification74-sc
SB25896-25Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 11:01Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0523	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.565		mg/kg dry	0.0523	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0523	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

75-sc

SB25896-26

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:08

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0601	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.235		mg/kg dry	0.0601	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0601	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	74			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

76-sc

SB25896-27

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:13

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0547	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0700		mg/kg dry	0.0547	1	"	"	"	"	"	X
11098-62-5	Aroclor-1260	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0547	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	96.9		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

77-sc

SB25896-28

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:18

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0640	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11097-89-1	Aroclor-1254	1.39		mg/kg dry	0.0640	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0640	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	130			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.5		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

78-sc

SB25896-29

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:23

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0611	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11141-18-5	Aroclor-1232	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0760		mg/kg dry	0.0611	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0611	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	141			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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Sample Identification

79-sc

SB25896-30

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:29

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0549	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	8.78		mg/kg dry	0.0549	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0549	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	111			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.2	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104942	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

80-sc

SB25896-31

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:34

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0570	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
12672-28-6	Aroclor-1248	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0755		mg/kg dry	0.0570	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0570	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	113			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.5			%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

81-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-32	181125.1000.0000	Concrete	18-Mar-11 11:39	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0615	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104883	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0908		mg/kg dry	0.0615	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0615	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	96			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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Sample Identification

82-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-33	181125.1000.0000	Concrete	18-Mar-11 11:44	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0607	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0607	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	118			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943
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Sample Identification

83-sc

SB25896-34

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:50

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0557	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0868		mg/kg dry	0.0557	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0557	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	82			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	77			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

84-sc

SB25896-35

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 11:58

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0598	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0598	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.7		%			1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

85-sc	Client Project #	Matrix	Collection Date/Time	Received
SB25896-36	181125.1000.0000	Concrete	18-Mar-11 12:03	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0631	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.484		mg/kg dry	0.0631	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0631	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification86-sc
SB25896-37Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 12:08Received
21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0596	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
53469-21-0	Aroclor-1242	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.553		mg/kg dry	0.0596	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0596	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	66			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.2	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

87-sc

SB25896-38

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 12:40

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0610	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0610	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	129			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification88-sc
SB25896-39Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 12:45Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0535	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.639		mg/kg dry	0.0535	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0535	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification89-sc
SB25896-40Client Project #
181125.1000.0000Matrix
ConcreteCollection Date/Time
18-Mar-11 12:49Received
21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0623	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0623	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	126			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	98.1		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

90-sc

SB25896-41

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 12:54

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0668	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0668	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	119			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	94			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.3		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

91-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-42	181125.1000.0000	Concrete	18-Mar-11 13:02	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0618	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	91			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.8		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

92-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-43	181125.1000.0000	Concrete	18-Mar-11 13:08	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0521	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.332		mg/kg dry	0.0521	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0521	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	107			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	79			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.8		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

93-sc

SB25896-44

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:13

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0618	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0618	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	118			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	112			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.9		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

<u>94-sc</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-45	181125.1000.0000	Concrete	18-Mar-11 13:18	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0646	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11097-59-1	Aroclor-1254	0.421		mg/kg dry	0.0646	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0646	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	97			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	84			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%				1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	
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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

95-sc

SB25896-46

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:24

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0599	1	SW846 8082A	21-Mar-11	24-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.156		mg/kg dry	0.0599	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0599	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	111		30-150 %		"	"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	101		30-150 %		"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80		30-150 %		"	"	"	"	"	"	

General Chemistry Parameters

% Solids	98.4	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943
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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

96-sc

SB25896-47

Client Project #

181125.1000.0000

Matrix

Concrete

Collection Date/Time

18-Mar-11 13:30

Received

21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0645	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.0665		mg/kg dry	0.0645	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0645	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	92			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	97.6		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

97-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-48	181125.1000.0000	Soil	18-Mar-11 13:33	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0239	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1.42		mg/kg dry	0.0239	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0239	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	101			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	79			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	80.4		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

98-Soil	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-49	181125.1000.0000	Soil	18-Mar-11 13:38	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12874-11-2	Aroclor-1016	BRL		mg/kg dry	0.0234	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.177		mg/kg dry	0.0234	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	86			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	79.1		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

<u>99-Soil</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-50	181125.1000.0000	Soil	18-Mar-11 13:44	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC												
Polychlorinated Biphenyls by SW846 8082												
Prepared by method SW846 3540C												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0234	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	2.20		mg/kg dry	0.0234	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0234	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	138			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	109			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	98			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	82.2		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104943	

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification

100-Soil

SB25896-51

Client Project #

181125.1000.0000

Matrix

Soil

Collection Date/Time

18-Mar-11 13:50

Received

21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Polychlorinated Biphenyls by SW846 8082</u>												
<u>Prepared by method SW846 3540C</u>												
12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0227	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
12872-29-6	Aroclor-1248	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.243		mg/kg dry	0.0227	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0227	1	"	"	"	"	"	X
Surrogate recoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	117			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	108			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	93			30-150 %		"	"	"	"	"	
General Chemistry Parameters												
	% Solids	84.0		%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

101-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-52	181125.1000.0000	Asphalt	18-Mar-11 13:55	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GC**Polychlorinated Biphenyls by SW846 8082****Prepared by method SW846 3540C**

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.207	1	SW846 8082A	21-Mar-11	25-Mar-11	SM	1104885	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.982		mg/kg dry	0.207	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.207	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	116			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"	
	[2C]											
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	102			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	97.3	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

102-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-53	181125.1000.0000	Asphalt	18-Mar-11 14:00	21-Mar-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0202	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104847	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.499		mg/kg dry	0.0202	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0202	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	73			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	56			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	55			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	98.3			%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962	
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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification

103-sc	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB25896-54	181125.1000.0000	Asphalt	18-Mar-11 14:03	21-Mar-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls by SW846 8082Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	BRL		mg/kg dry	0.0200	1	SW846 8082A	21-Mar-11	24-Mar-11	IMR	1104847	X
11104-28-2	Aroclor-1221	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	0.171		mg/kg dry	0.0200	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	BRL		mg/kg dry	0.0200	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	67			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	72			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	46			30-150 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	99.3	%		1	SM2540 G Mod.	22-Mar-11	22-Mar-11	GMA	1104962
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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 1104847 - SW846 3540C									
Blank (1104847-BLK1)					Prepared: 21-Mar-11 Analyzed: 22-Mar-11				
Aroclor-1016	BRL		mg/kg wet	0.0200					
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1221	BRL		mg/kg wet	0.0200					
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1232	BRL		mg/kg wet	0.0200					
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1242	BRL		mg/kg wet	0.0200					
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1248	BRL		mg/kg wet	0.0200					
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1254	BRL		mg/kg wet	0.0200					
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1260	BRL		mg/kg wet	0.0200					
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1262	BRL		mg/kg wet	0.0200					
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1268	BRL		mg/kg wet	0.0200					
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0177		mg/kg wet		0.0200		88 30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0215		mg/kg wet		0.0200		108 30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0241		mg/kg wet		0.0200		121 30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0246		mg/kg wet		0.0200		123 30-150		
LCS (1104847-BS1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	0.204		mg/kg wet	0.0200	0.250		82 50-140		
Aroclor-1016 [2C]	0.232		mg/kg wet	0.0200	0.250		93 50-140		
Aroclor-1260	0.213		mg/kg wet	0.0200	0.250		85 50-140		
Aroclor-1260 [2C]	0.218		mg/kg wet	0.0200	0.250		87 50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0174		mg/kg wet		0.0200		87 30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0201		mg/kg wet		0.0200		101 30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0236		mg/kg wet		0.0200		118 30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0276		mg/kg wet		0.0200		138 30-150		
LCS Dup (1104847-BSD1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	0.224		mg/kg wet	0.0200	0.250		89 50-140	9	30
Aroclor-1016 [2C]	0.243		mg/kg wet	0.0200	0.250		97 50-140	5	30
Aroclor-1260	0.228		mg/kg wet	0.0200	0.250		91 50-140	7	30
Aroclor-1260 [2C]	0.205		mg/kg wet	0.0200	0.250		82 50-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0189		mg/kg wet		0.0200		94 30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0203		mg/kg wet		0.0200		102 30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0259		mg/kg wet		0.0200		130 30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0258		mg/kg wet		0.0200		129 30-150		
Batch 1104882 - SW846 3540C									
Blank (1104882-BLK1)					Prepared: 21-Mar-11 Analyzed: 23-Mar-11				
Aroclor-1016	BRL		mg/kg wet	0.0200					
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1221	BRL		mg/kg wet	0.0200					
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1232	BRL		mg/kg wet	0.0200					
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200					
Aroclor-1242	BRL		mg/kg wet	0.0200					
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200					

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104882 - SW846 3540C										
<u>Blank (1104882-BLK1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0194		mg/kg wet		0.0200		97	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0255		mg/kg wet		0.0200		128	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0211		mg/kg wet		0.0200		106	30-150		
<u>LCS (1104882-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1016	0.217		mg/kg wet	0.0200	0.250		87	50-140		
Aroclor-1016 [2C]	0.228		mg/kg wet	0.0200	0.250		91	50-140		
Aroclor-1260	0.221		mg/kg wet	0.0200	0.250		89	50-140		
Aroclor-1260 [2C]	0.210		mg/kg wet	0.0200	0.250		84	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0228		mg/kg wet		0.0200		114	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0248		mg/kg wet		0.0200		124	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0236		mg/kg wet		0.0200		118	30-150		
<u>LCS Dup (1104882-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 23-Mar-11</u>					
Aroclor-1016	0.234		mg/kg wet	0.0200	0.250		94	50-140	8	30
Aroclor-1016 [2C]	0.231		mg/kg wet	0.0200	0.250		93	50-140	1	30
Aroclor-1260	0.216		mg/kg wet	0.0200	0.250		86	50-140	3	30
Aroclor-1260 [2C]	0.224		mg/kg wet	0.0200	0.250		90	50-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0226		mg/kg wet		0.0200		113	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0233		mg/kg wet		0.0200		117	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0259		mg/kg wet		0.0200		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0240		mg/kg wet		0.0200		120	30-150		
Batch 1104883 - SW846 3540C										
<u>Blank (1104883-BLK1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	BRL		mg/kg wet	0.0200						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1221	BRL		mg/kg wet	0.0200						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1232	BRL		mg/kg wet	0.0200						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1242	BRL		mg/kg wet	0.0200						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104883 - SW846 3540C										
Blank (1104883-BLK1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0264		mg/kg wet		0.0200		132	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0199		mg/kg wet		0.0200		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0228		mg/kg wet		0.0200		114	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0187		mg/kg wet		0.0200		94	30-150		
LCS (1104883-BS1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	0.227		mg/kg wet	0.0200	0.250		91	50-140		
Aroclor-1016 [2C]	0.225		mg/kg wet	0.0200	0.250		90	50-140		
Aroclor-1260	0.201		mg/kg wet	0.0200	0.250		80	50-140		
Aroclor-1260 [2C]	0.237		mg/kg wet	0.0200	0.250		95	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0208		mg/kg wet		0.0200		104	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0196		mg/kg wet		0.0200		98	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0201		mg/kg wet		0.0200		101	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0175		mg/kg wet		0.0200		88	30-150		
LCS Dup (1104883-BSD1)					Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	0.190		mg/kg wet	0.0200	0.250		76	50-140	18	30
Aroclor-1016 [2C]	0.218		mg/kg wet	0.0200	0.250		87	50-140	4	30
Aroclor-1260	0.191		mg/kg wet	0.0200	0.250		76	50-140	5	30
Aroclor-1260 [2C]	0.221		mg/kg wet	0.0200	0.250		88	50-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0174		mg/kg wet		0.0200		87	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0195		mg/kg wet		0.0200		98	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0166		mg/kg wet		0.0200		83	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0164		mg/kg wet		0.0200		82	30-150		
Duplicate (1104883-DUP1)					Source: SB25896-13 Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1254	2.66		mg/kg dry	0.0245		2.14			22	40
Aroclor-1254 [2C]	2.68		mg/kg dry	0.0245		2.22			18	40
Aroclor-1260	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0245		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0245		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0350		mg/kg dry		0.0245		143	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0244		mg/kg dry		0.0245		99	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0290		mg/kg dry		0.0245		118	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0268		mg/kg dry		0.0245		109	30-150		
Matrix Spike (1104883-MS1)					Source: SB25896-13 Prepared: 21-Mar-11 Analyzed: 24-Mar-11					
Aroclor-1016	0.242		mg/kg dry	0.0237	0.296	BRL	82	40-135		
Aroclor-1016 [2C]	0.247		mg/kg dry	0.0237	0.296	BRL	83	40-135		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104883 - SW846 3540C										
<u>Matrix Spike (1104883-MS1)</u>			<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1260	0.534	QM2	mg/kg dry	0.0237	0.296	BRL	180	40-135		
Aroclor-1260 [2C]	0.546	QM2	mg/kg dry	0.0237	0.296	BRL	184	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0249		mg/kg dry		0.0237		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0218		mg/kg dry		0.0237		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0292		mg/kg dry		0.0237		123	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0285		mg/kg dry		0.0237		120	30-150		
<u>Matrix Spike Dup (1104883-MSD1)</u>			<u>Source: SB25896-13</u>		<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016	0.277		mg/kg dry	0.0242	0.302	BRL	92	40-135	11	30
Aroclor-1016 [2C]	0.286		mg/kg dry	0.0242	0.302	BRL	95	40-135	13	30
Aroclor-1260	0.616	QM2	mg/kg dry	0.0242	0.302	BRL	204	40-135	13	30
Aroclor-1260 [2C]	0.694	QM2	mg/kg dry	0.0242	0.302	BRL	230	40-135	22	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0296		mg/kg dry		0.0242		123	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0254		mg/kg dry		0.0242		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0273		mg/kg dry		0.0242		113	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0220		mg/kg dry		0.0242		91	30-150		
Batch 1104885 - SW846 3540C										
<u>Blank (1104885-BLK1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	BRL		mg/kg wet	0.0200						
Aroclor-1016 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1221	BRL		mg/kg wet	0.0200						
Aroclor-1221 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1232	BRL		mg/kg wet	0.0200						
Aroclor-1232 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1242	BRL		mg/kg wet	0.0200						
Aroclor-1242 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1248	BRL		mg/kg wet	0.0200						
Aroclor-1248 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1254	BRL		mg/kg wet	0.0200						
Aroclor-1254 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1260	BRL		mg/kg wet	0.0200						
Aroclor-1260 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1262	BRL		mg/kg wet	0.0200						
Aroclor-1262 [2C]	BRL		mg/kg wet	0.0200						
Aroclor-1268	BRL		mg/kg wet	0.0200						
Aroclor-1268 [2C]	BRL		mg/kg wet	0.0200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0226		mg/kg wet		0.0200		113	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0184		mg/kg wet		0.0200		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0203		mg/kg wet		0.0200		102	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0178		mg/kg wet		0.0200		89	30-150		
<u>LCS (1104885-BS1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	0.225		mg/kg wet	0.0200	0.250		90	50-140		
Aroclor-1016 [2C]	0.206		mg/kg wet	0.0200	0.250		82	50-140		
Aroclor-1260	0.210		mg/kg wet	0.0200	0.250		84	50-140		
Aroclor-1260 [2C]	0.228		mg/kg wet	0.0200	0.250		91	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0203		mg/kg wet		0.0200		102	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0173		mg/kg wet		0.0200		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0209		mg/kg wet		0.0200		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0154		mg/kg wet		0.0200		77	30-150		
<u>LCS Dup (1104885-BSD1)</u>			<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>							
Aroclor-1016	0.226		mg/kg wet	0.0200	0.250		91	50-140	0.7	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104885 - SW846 3540C										
<u>LCS Dup (1104885-BSD1)</u>					<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>					
Aroclor-1016 [2C]	0.211		mg/kg wet	0.0200	0.250		84	50-140	2	30
Aroclor-1260	0.217		mg/kg wet	0.0200	0.250		87	50-140	4	30
Aroclor-1260 [2C]	0.227		mg/kg wet	0.0200	0.250		91	50-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0205		mg/kg wet		0.0200		103	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0174		mg/kg wet		0.0200		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0218		mg/kg wet		0.0200		109	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0165		mg/kg wet		0.0200		82	30-150		
<u>Duplicate (1104885-DUP1)</u>					<u>Source: SB25896-33</u>	<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>				
Aroclor-1016	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1016 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1221	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1221 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1232	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1232 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1242	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1242 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1248	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1248 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1254	BRL		mg/kg dry	0.0536		0.0422				40
Aroclor-1254 [2C]	0.0263	J	mg/kg dry	0.0536		0.0367			33	40
Aroclor-1260	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1260 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1262	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1262 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1268	BRL		mg/kg dry	0.0536		BRL				40
Aroclor-1268 [2C]	BRL		mg/kg dry	0.0536		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0896	S02	mg/kg dry		0.0536		167	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0687		mg/kg dry		0.0536		128	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0802		mg/kg dry		0.0536		150	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0743		mg/kg dry		0.0536		139	30-150		
<u>Matrix Spike (1104885-MS1)</u>					<u>Source: SB25896-33</u>	<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>				
Aroclor-1016	0.635		mg/kg dry	0.0624	0.780	BRL	81	40-135		
Aroclor-1016 [2C]	0.625		mg/kg dry	0.0624	0.780	BRL	80	40-135		
Aroclor-1260	0.668		mg/kg dry	0.0624	0.780	BRL	86	40-135		
Aroclor-1260 [2C]	0.725		mg/kg dry	0.0624	0.780	BRL	93	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0530		mg/kg dry		0.0624		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0536		mg/kg dry		0.0624		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0655		mg/kg dry		0.0624		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0568		mg/kg dry		0.0624		91	30-150		
<u>Matrix Spike Dup (1104885-MSD1)</u>					<u>Source: SB25896-33</u>	<u>Prepared: 21-Mar-11 Analyzed: 24-Mar-11</u>				
Aroclor-1016	0.545		mg/kg dry	0.0578	0.722	BRL	76	40-135	8	30
Aroclor-1016 [2C]	0.533		mg/kg dry	0.0578	0.722	BRL	74	40-135	8	30
Aroclor-1260	0.580		mg/kg dry	0.0578	0.722	BRL	80	40-135	6	30
Aroclor-1260 [2C]	0.654		mg/kg dry	0.0578	0.722	BRL	91	40-135	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.0569		mg/kg dry		0.0578		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.0500		mg/kg dry		0.0578		87	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.0621		mg/kg dry		0.0578		108	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.0601		mg/kg dry		0.0578		104	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1104942 - General Preparation										
<u>Duplicate (1104942-DUP1)</u>				<u>Source: SB25896-11</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	70.9		%			69.0			3	20
Batch 1104943 - General Preparation										
<u>Duplicate (1104943-DUP1)</u>				<u>Source: SB25896-31</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	97.9		%			97.5			0.4	20
Batch 1104962 - General Preparation										
<u>Duplicate (1104962-DUP1)</u>				<u>Source: SB25896-51</u>		<u>Prepared & Analyzed: 22-Mar-11</u>				
% Solids	83.5		%			84.0			0.5	20

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Rebecca Merz

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: Quirk Middle School - Hartford, CT

Project Number: 181125.1000.0000

Sampling Date(s):

3/18/2011

Laboratory Sample ID(s):

SB25896-01 through SB25896-54

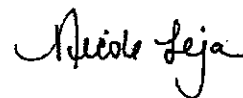
RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? <i>* Exceptions are defined by qualifiers</i>	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/25/2011

SPECTRUM

TRC

11 GRIFFIN RD NORTH
WATSONVILLE, CONNECTICUT 06095
TELEPHONE (860) 258-6600
FAX (860) 258-6600

CHAIN OF CUSTODY

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME	
UNITS ORDERED		Duck Island School, Hartford, CT				Date	
INSTRUCTION (SIGNATURE)		TYPE		MATERIAL		Date	
Inspector: [Signature]		Inspector: [Signature]		Inspector: [Signature]		Date: [Signature]	
FIELD SAMPLE NUMBER	DATE	TYPE	MATERIAL	TEST (SEE P.2)	TURNAROUND TIME	DATE	TIME
20A-SC	11/16/11	0010	Concrete	X	2500-10	11/16/11	10:00
21-SC	11/16/11	0011	Asphalt	X	2500-10	11/16/11	10:00
22-SC	11/16/11	0012	Asphalt	X	2500-10	11/16/11	10:00
23-SC	11/16/11	0013	Asphalt	X	2500-10	11/16/11	10:00
24-SC	11/16/11	0014	Asphalt	X	2500-10	11/16/11	10:00
25-SC	11/16/11	0015	Asphalt	X	2500-10	11/16/11	10:00
26-SC	11/16/11	0016	Asphalt	X	2500-10	11/16/11	10:00
27-SC	11/16/11	0017	Asphalt	X	2500-10	11/16/11	10:00
28-SC	11/16/11	0018	Asphalt	X	2500-10	11/16/11	10:00
29-SC	11/16/11	0019	Asphalt	X	2500-10	11/16/11	10:00
30-SC	11/16/11	0020	Asphalt	X	2500-10	11/16/11	10:00
31-SC	11/16/11	0021	Asphalt	X	2500-10	11/16/11	10:00
32-SC	11/16/11	0022	Asphalt	X	2500-10	11/16/11	10:00
33-SC	11/16/11	0023	Asphalt	X	2500-10	11/16/11	10:00
34-SC	11/16/11	0024	Asphalt	X	2500-10	11/16/11	10:00
35-SC	11/16/11	0025	Asphalt	X	2500-10	11/16/11	10:00
36-SC	11/16/11	0026	Asphalt	X	2500-10	11/16/11	10:00
37-SC	11/16/11	0027	Asphalt	X	2500-10	11/16/11	10:00
38-SC	11/16/11	0028	Asphalt	X	2500-10	11/16/11	10:00
39-SC	11/16/11	0029	Asphalt	X	2500-10	11/16/11	10:00
40-SC	11/16/11	0030	Asphalt	X	2500-10	11/16/11	10:00
41-SC	11/16/11	0031	Asphalt	X	2500-10	11/16/11	10:00
42-SC	11/16/11	0032	Asphalt	X	2500-10	11/16/11	10:00
43-SC	11/16/11	0033	Asphalt	X	2500-10	11/16/11	10:00
44-SC	11/16/11	0034	Asphalt	X	2500-10	11/16/11	10:00
45-SC	11/16/11	0035	Asphalt	X	2500-10	11/16/11	10:00
46-SC	11/16/11	0036	Asphalt	X	2500-10	11/16/11	10:00
47-SC	11/16/11	0037	Asphalt	X	2500-10	11/16/11	10:00
48-SC	11/16/11	0038	Asphalt	X	2500-10	11/16/11	10:00
49-SC	11/16/11	0039	Asphalt	X	2500-10	11/16/11	10:00
50-SC	11/16/11	0040	Asphalt	X	2500-10	11/16/11	10:00
51-SC	11/16/11	0041	Asphalt	X	2500-10	11/16/11	10:00
52-SC	11/16/11	0042	Asphalt	X	2500-10	11/16/11	10:00
53-SC	11/16/11	0043	Asphalt	X	2500-10	11/16/11	10:00
54-SC	11/16/11	0044	Asphalt	X	2500-10	11/16/11	10:00
55-SC	11/16/11	0045	Asphalt	X	2500-10	11/16/11	10:00
56-SC	11/16/11	0046	Asphalt	X	2500-10	11/16/11	10:00
57-SC	11/16/11	0047	Asphalt	X	2500-10	11/16/11	10:00
58-SC	11/16/11	0048	Asphalt	X	2500-10	11/16/11	10:00
59-SC	11/16/11	0049	Asphalt	X	2500-10	11/16/11	10:00
60-SC	11/16/11	0050	Asphalt	X	2500-10	11/16/11	10:00
61-SC	11/16/11	0051	Asphalt	X	2500-10	11/16/11	10:00
62-SC	11/16/11	0052	Asphalt	X	2500-10	11/16/11	10:00
63-SC	11/16/11	0053	Asphalt	X	2500-10	11/16/11	10:00
64-SC	11/16/11	0054	Asphalt	X	2500-10	11/16/11	10:00
65-SC	11/16/11	0055	Asphalt	X	2500-10	11/16/11	10:00
66-SC	11/16/11	0056	Asphalt	X	2500-10	11/16/11	10:00
67-SC	11/16/11	0057	Asphalt	X	2500-10	11/16/11	10:00
68-SC	11/16/11	0058	Asphalt	X	2500-10	11/16/11	10:00
69-SC	11/16/11	0059	Asphalt	X	2500-10	11/16/11	10:00
70-SC	11/16/11	0060	Asphalt	X	2500-10	11/16/11	10:00
71-SC	11/16/11	0061	Asphalt	X	2500-10	11/16/11	10:00
72-SC	11/16/11	0062	Asphalt	X	2500-10	11/16/11	10:00
73-SC	11/16/11	0063	Asphalt	X	2500-10	11/16/11	10:00
74-SC	11/16/11	0064	Asphalt	X	2500-10	11/16/11	10:00
75-SC	11/16/11	0065	Asphalt	X	2500-10	11/16/11	10:00
76-SC	11/16/11	0066	Asphalt	X	2500-10	11/16/11	10:00
77-SC	11/16/11	0067	Asphalt	X	2500-10	11/16/11	10:00
78-SC	11/16/11	0068	Asphalt	X	2500-10	11/16/11	10:00
79-SC	11/16/11	0069	Asphalt	X	2500-10	11/16/11	10:00
80-SC	11/16/11	0070	Asphalt	X	2500-10	11/16/11	10:00
81-SC	11/16/11	0071	Asphalt	X	2500-10	11/16/11	10:00
82-SC	11/16/11	0072	Asphalt	X	2500-10	11/16/11	10:00
83-SC	11/16/11	0073	Asphalt	X	2500-10	11/16/11	10:00
84-SC	11/16/11	0074	Asphalt	X	2500-10	11/16/11	10:00
85-SC	11/16/11	0075	Asphalt	X	2500-10	11/16/11	10:00
86-SC	11/16/11	0076	Asphalt	X	2500-10	11/16/11	10:00
87-SC	11/16/11	0077	Asphalt	X	2500-10	11/16/11	10:00
88-SC	11/16/11	0078	Asphalt	X	2500-10	11/16/11	10:00
89-SC	11/16/11	0079	Asphalt	X	2500-10	11/16/11	10:00
90-SC	11/16/11	0080	Asphalt	X	2500-10	11/16/11	10:00
91-SC	11/16/11	0081	Asphalt	X	2500-10	11/16/11	10:00
92-SC	11/16/11	0082	Asphalt	X	2500-10	11/16/11	10:00
93-SC	11/16/11	0083	Asphalt	X	2500-10	11/16/11	10:00
94-SC	11/16/11	0084	Asphalt	X	2500-10	11/16/11	10:00
95-SC	11/16/11	0085	Asphalt	X	2500-10	11/16/11	10:00
96-SC	11/16/11	0086	Asphalt	X	2500-10	11/16/11	10:00
97-SC	11/16/11	0087	Asphalt	X	2500-10	11/16/11	10:00
98-SC	11/16/11	0088	Asphalt	X	2500-10	11/16/11	10:00
99-SC	11/16/11	0089	Asphalt	X	2500-10	11/16/11	10:00
100-SC	11/16/11	0090	Asphalt	X	2500-10	11/16/11	10:00

CT KCP Report and stamp responsible test needed

11/16/11

TRC

11 GARDEN RD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-6607
FAX (860) 298-6609

CHAIN OF CUSTODY

PROJECT NUMBER		PROJECT NAME		PARA-METER		LAB TO F.	
1111111111		Quirk Middle School, Hartford, CT				<input type="checkbox"/> Soil <input type="checkbox"/> Air <input type="checkbox"/> Water	
TESTER (OWNER)		(PRINTER)					
INSPECTOR (ENGINEER)		Inspector Paulina de Mello-Knapik					
FIELD SAMPLE NUMBER	DATE	TIME	MATERIAL			TESTER	REMARKS
			TYPE	IN	OUT		
14-01	3/10/11	11:05	Concrete	X		23.50%	2.5
15-01	3/10/11	11:06	Concrete	X			2.6
16-01	3/10/11	11:11	Concrete	X			7.71
17-01	3/10/11	11:14	Concrete	X			2.8
18-01	3/10/11	11:21	Concrete	X			2.9
19-01	3/10/11	11:25	Concrete	X			3.0
20-01	3/10/11	11:34	Concrete	X			3.1
21-01	3/10/11	11:39	Concrete	X			3.2
22-01	3/10/11	11:44	Concrete	X			3.3
23-01	3/10/11	11:50	Concrete	X			3.4
24-01	3/10/11	11:58	Concrete	X			3.5
25-01	3/10/11	12:07	Concrete	X			3.6

Investigated by (Signature)		Investigated by (Signature)		Date		Printed or Signature	
[Signature]		[Signature]		3/24/11		[Signature]	
Name		Name		Time		Time	
3:20 PM		1:00 PM		3:24 PM		12:30 PM	
Inspector Paulina		Inspector Paulina					
CT RLP Report and samples responsible firm needed						Page 1 of 1	

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APPENDIX B

Public Communication Procedure

Insert Date Here

Draft Notification to Parents, Teachers and Employee Organizations

International Baccalaureate School (formerly Thomas J. Quirk Middle School) East Building and Connectors will commence a demolition and renovation program starting on *[insert date]*. During this program there will be removal of asbestos containing materials, and PCB-contaminated building materials at the school.

The asbestos and PCB abatement programs were authorized by the State of Connecticut Departments of Public Health (CT DPH) and Environmental Protection (CT DEP), the United States Environmental Protection Agency Region 1 (EPA) and Connecticut Schools Facility Unit after careful planning and thorough review.

Workers and students will not use the International Baccalaureate School while removal and abatement is ongoing. The School will reopen after the asbestos and PCB abatement work along with the planned renovations are completed.

The asbestos and PCB abatement work will be performed by a Connecticut Department of Public Health licensed asbestos abatement contractor and personnel experienced in the handling of PCB contaminated materials, *insert contractor name here*. Asbestos and PCB abatement work will be monitored continuously by *insert contractor name here*, an independent environmental consultant hired by the State to conduct inspection and testing during asbestos and PCB abatement activities.

As required by the CT DPH, CT DEP and EPA, this notification is being sent to parents, teachers, and employee organizations at the International Baccalaureate School. Any questions about the project may be directed to, *insert contact name here*.

We appreciate your patience and understanding during this process.

Sincerely,

insert contact name here.

(please turn over →)

State of Connecticut
Department of Public Health

Division of Environmental Health
410 Capitol Avenue, MS#51AIR
Hartford, CT 06134-0308
860-509-7367

State of Connecticut
Department of Environmental Protection

79 Elm Street
Hartford, CT 06106
860-424-3329

Asbestos/PCB Consultant:

To be determined
Street Address
City, State Zip Code
Contact Number

Asbestos/PCB Abatement Contractor:

To be determined
Street Address
City, State Zip Code
Contact Number

cc:

insert contact name here, Mayor, City of Hartford
insert contact name here, General Manager, City of Hartford
insert contact name here, Superintendent of Schools
insert contact name here, Principal, International Baccalaureate School

APPENDIX C

EPA Region 1 SOP

REGION I, EPA-NEW ENGLAND

DRAFT STANDARD OPERATING PROCEDURE FOR SAMPLING CONCRETE IN THE FIELD



**U.S. EPA-NEW ENGLAND
Region I
Quality Assurance Unit Staff
Office of Environmental Measurement and Evaluation**

Prepared by: *Alan W Peterson*
Quality Assurance Chemist

Date: 12/30/97

Reviewed by: *Andrew Beliveau*
Senior Technical Specialist

Date: 12/30/97

Approved by: *Nancy Barmakian*
Branch Chief

Date: 12/30/97

Region I, EPA New England

Standard Operating Procedure for Sampling Concrete in the Field

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Region I, EPA New England

Standard Operating Procedure for Sampling Concrete in the Field

1.0 Scope and Application

The following Standard Operating Procedure (SOP) describes a concrete sampling technique which uses an impact hammer drill to generate a uniform, finely ground, powder which is easily homogenized, extracted and analyzed. This procedure is primarily geared at providing enough sample for one or two different analyses at a time. That is, the time required to generate sufficient sample for a full sweep of analyses may be impractical. The concrete powder is suitable for all types of environmental analyses, with the exception of volatile compounds, and may be analyzed in the field or at a fixed laboratory. This procedure is applicable for the collection of samples from concrete floors, walls, and ceilings.

The impact hammer drill is far less labor intensive than previous techniques using coring devices, or hammers and chisels. It allows for easy selection of sample location and sample depth. Not only can the project planner control the depth to sample into the concrete, from surface samples (0 - ½ inch) down to a core of the entire slab, but the technique can also be modified to collect samples at discrete depths within the concrete slab.

Another issue with concrete sampling is the fact that the amount of time spent drilling translates into the weight of sample produced. Thus, to maximize sampling time, it is important to know the minimum amount of sample required for each analysis. To do this, the project planner should take the following steps: 1) Use the Data Quality Objective (DQO) process and familiarity with the site to develop the objectives of the sampling project and the depth(s) of sample to be collected. 2) Review the site history and any previous data collected to determine possible contaminants of concern. 3) Establish the action levels for those possible contaminants and determine the appropriate analytical methods (both field and/or fixed laboratory) to meet the DQOs of the project. 4) Based on the detection limits of these methods, determine the amount of sample required for each analysis and the total sample weight required for each sample location (including quality control samples).

As with any environmental data collection project, all aspects of a concrete sampling episode should be well thought out, prior to going out in the field, and thoroughly described in a Quality Assurance Project Plan (QAPP). The QAPP should clearly state the DQOs of the project and document a complete Quality Assurance/Quality Control program to reconcile the data generated with the established DQOs. For more information on these subjects, refer to EPA documents QA/R-5, EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations, and QA/G-4, Guidance for the Data Quality Objective Process.

2.0 Method Summary

A one-inch diameter carbide drill bit is used in a rotary impact hammer drill to generate a fine concrete powder suitable for analysis. The powder is placed in a sample container and homogenized for field or fixed laboratory analysis. The procedure can be used to sample a single depth into the concrete, or may be modified to sample the concrete at distinctly different depth zones. The modified depth sampling procedure is designed to minimize any cross contamination between the sampling zones. If different

sampling depths are required, two different diameter drill bits and a vacuum sampling apparatus are employed.

3.0 Health and Safety

Eye and hearing protection are required at all times during sample drilling. A small amount of dust is generated during the drilling process. Proper respiratory protection and/or a dust control system must be in place at all times during sampling.

4.0 Interferences and Potential Problems

Since this sampling technique produces a finely ground uniform powder, physical matrix effects from variations in the sample consistency (i.e., particle size, uniformity, homogeneity, and surface condition) are minimized. Matrix spike analysis of a sample is highly recommended to monitor for any matrix related interferences.

As stated in Section 1.0 above, this sampling procedure is not recommended for volatile organic compound (VOC) analysis. The combination of heat generated during drilling and the exposure of a large amount of surface area will greatly reduce VOC recovery. If low boiling point semi-volatile compounds (i.e., naphthalene) are being analyzed, then the drill speed should be reduced to minimize heat build-up.

5.0 Equipment and Supplies

5.1 Single Depth Concrete Sampling

- 5.1.1 Rotary impact hammer drill
- 5.1.2 1-inch diameter carbide drill bits
- 5.1.3 Stainless steel scoopulas
- 5.1.4 Stainless steel spoonulas (for collecting sample in deeper holes, >2-inches)
- 5.1.5 Rectangular aluminum pans (to catch concrete during wall and ceiling sampling)
- 5.1.6 Gasoline powered generator (if alternative power source is required)

5.2 Multiple Depth Sampling (in addition to all the above)

- 5.2.1 ½ inch diameter carbide drill bits
- 5.2.2 Vacuum/sample trap assembly (see Section 7.2 and Figure 1)
 - 5.2.2.1 Vacuum pump
 - 5.2.2.2 2-hole rubber stopper
 - 5.2.2.3 Glass tubing (to fit stopper)
 - 5.2.2.4 Large glass test tubes, or Erlenmeyer flasks, for sample trap (several are suggested)
 - 5.2.2.5 Polyethylene tubing for trap inlet (Tygon tubing may be used for the trap outlet)
 - 5.2.2.6 Pasture pipets
 - 5.2.2.7 Pipe cleaners
 - 5.2.2.8 In-line dust filter (glass fiber filter, or equivalent)

6.0 Sample Containers, Preservation, and Storage

Concrete samples must be collected in glass containers for organic analyses, and may be collected in either glass or plastic containers for inorganic analyses. In general, a 2-ounce sample container with Teflon-lined cap (wide-mouth jars are preferred) will hold sufficient volume for most analyses. A 2-ounce jar can hold roughly 90 grams sample. Note, samples which require duplicate and/or matrix spike/matrix spike duplicate analyses may require a larger sample container, or additional 2-ounce sample containers.

Organic samples are to be shipped on ice and maintained at 4°C (\pm 2°C) until the time of extraction and analysis. Inorganic samples may be shipped and stored at room temperature. Refer to 40 CFR Part 136 for guidelines on analysis holding times.

To maintain sample integrity, chain-of-custody procedures must be implemented at the time of sampling to 1) document all sample locations and associated field sample identification numbers, 2) document all quality control samples taken, including field duplicates, split samples for confirmatory analyses, and PE samples, and 3) document the transfer of field samples from field sampler to field chemist or fixed laboratory.

7.0 Procedure

7.1 Single Depth Concrete Sampling

Lock a 1-inch diameter carbide drill bit into the impact hammer drill and plug the drill into an appropriate power source. (A gasoline generator will be needed if electricity is not available.) For easy identification, sample locations may be pre-marked using a crayon or a non-contaminating spray paint. (Note, the actual drilling point must not be marked.) Depending on the appearance of the sample location, or the objectives of the sampling project, it may be desired to wipe the concrete surface with a clean dry cloth prior to drilling. All sampling decisions of this nature should be noted in the sampling logbook. Begin drilling in the designated location. Apply steady even pressure and let the drill do the work. Applying too much pressure will generate excessive heat and dull the drill bit prematurely. The drill will provide a finely ground concrete powder that can be easily collected, homogenized and analyzed. Having several decontaminated impact drill bits on hand will help expedite sampling when numerous sample locations are to be drilled.

Sample Collection

A ½-inch deep hole (using a 1-inch diameter drill bit) generates about 10 grams of concrete powder. Based on this and the action levels for the project, determine the sampling depth, and/or the number of sample holes to be composited, to generate sufficient sample volume for all of the required analyses. (Note, with the absorbency of concrete, a ½-inch deep hole can be considered a surface sample.)

A decontaminated stainless steel scoopula can be used to collect the sample. The powder can either be collected directly from the surface of the concrete and/or the concrete powder can be scraped back into the hole and the less rounded back edge of the scoopula can be used to collect the sample. For holes greater than 2-inches in depth, a stainless steel spoonula will make it easier to collect the sample from the bottom of the hole.

To ensure collection of a representative sample when multiple analyses are required, a concrete sample should always be collected and homogenized in a single container and then divided up into the individual containers for the various analyses or split samples. This is particularly important when sample holes are deep, or when several holes are drilled adjacent to each other to form a sample composite.

Wall and Ceiling Sampling

A team of two samplers will be required for wall and ceiling sampling. The second person will be needed to hold a clean catch surface (i.e., an aluminum pan) below the drill to collect the falling powder. For wall samples, a scoopula, or spoonula, can be used to collect remaining concrete powder from within the hole. For ceiling holes, it may be necessary to drill the hole at an angle so the concrete powder can fall freely in the collection pan (and avoid falling on the drill). Another alternative might be to use the chuck-end of the drill bit and punch a hole through the center of the collection pan. The drill bit is then mounted through the pan and into the drill. Thus, the driller can be drilling straight up while the assistant steadies the pan to catch the falling dust. As a precaution, it may be advantageous to tape a piece of plastic around the drill, just below the chuck, to avoid dust contaminating the body of the drill and entering the mechanical vents. (Note, the plastic should deflect dust from the drill, but be loose enough underneath to allow for proper ventilation.)

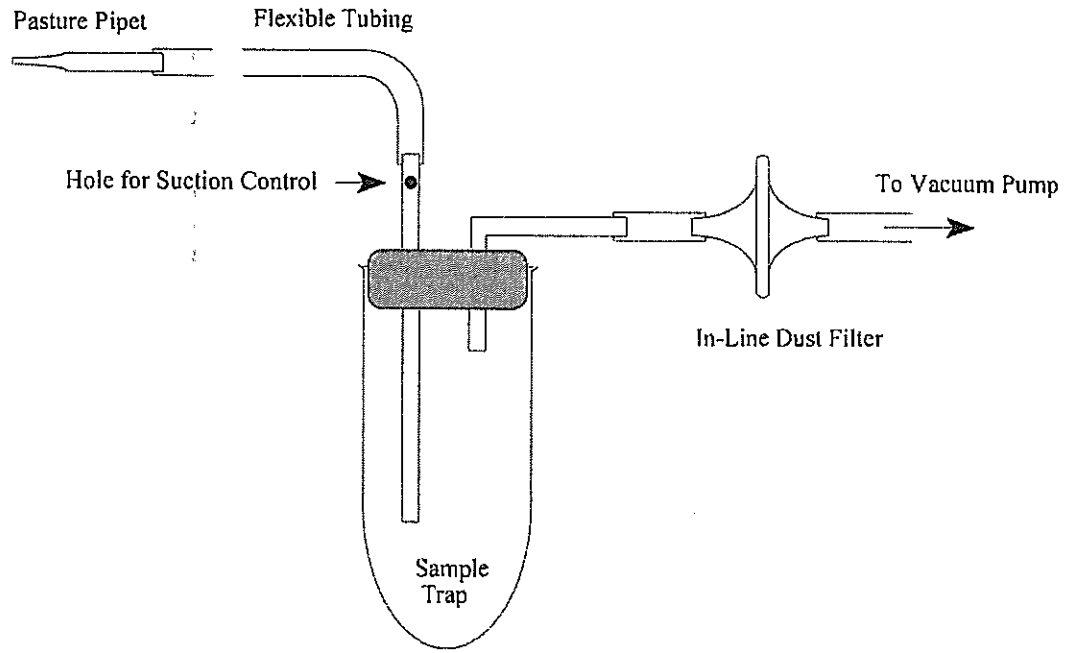
7.2 Multiple Depth Concrete Sampling

The above method for concrete sampling can also be used to collect samples from different depths within the concrete. To do this, two different sized drill bits (i.e., ½ inch and 1 inch) and a simple vacuum pump with a vacuum trap assembly is required (see Figure 1). First, the 1 inch drill bit is used to drill to the first level and the concrete sample is collected as described in Section 7.1. The vacuum pump is then turned on and the hole is cleaned out using the vacuum trap assembly. The drill bit is then changed to the ½ inch bit and the next depth is drilled out (the ½ inch bit is used to avoid contact with the sides of the first hole). A clean tube or flask is placed on the vacuum trap, and the sample from the second drilling is collected. To go further, the 1 inch drill is used to open up the hole to the second level, the hole is cleared, and then the ½ inch drill is used again to go to a third level, etc. Note, the holes and concrete surface should be vacuumed thoroughly to minimize any cross-contamination between sample depths.

Vacuum Trap Design and Clean-out

The trap presented in Figure 1 is a convenient and thorough way for collecting and removing concrete powder from drilled holes. The trap system is designed to allow for control of the suction from the vacuum pump and easy trap clean-out between samples. Note, by placing a hole in the inlet tube (see Figure 1), a finger on the hand holding the trap can be used to control the suction at the sampling tip. Thus, when this hole is left completely open, there will be no suction, and the sampler can have complete control over where and what to sample. To change-out between samples the following steps should be taken: 1) The pasture pipet and piece of polyethylene tubing at the sample inlet should be replaced with new materials, 2) the portion of the rubber stopper and glass tubing that was in the trap should be wiped down with a clean damp paper towel (wetted with deionized water) and then dried with a fresh paper towel, 3) a clean pipe cleaner should be drawn through the glass inlet tube to remove any concrete dust present, and 4) the glass tube or flask used to collect the sample should swapped out with a clean decontaminated sample trap. Having several clean tubes or flasks on hand will facilitate change-out between samples.

Figure 1



7.3 Decontamination Procedure

Necessary supplies for decontamination include: two small buckets, a scrub brush, potable water, deionized water, a squirt bottle for the deionized water, and paper towels. The first bucket contains a soap and potable water solution, and the second bucket contains just potable water. Place all used drill bits and utensils in the soap and water bucket. Scrub each piece thoroughly using the scrub brush. Note, the concrete powder does cling to the metal surfaces, so care should be taken during this step, especially with the twists and curves of the drill bits. Next, rinse each piece in the potable water bucket, and follow with a deionized water rinse from the squirt bottle. Place the deionized water rinsed pieces on clean paper towels and individually dry and inspect each piece. Note, all pieces should be dry prior to reuse.

8.0 Field Documentation

All Site related documentation and reports generated from concrete sampling should be maintained in the central Site file. If personal logbooks are used, legible copies of all pertinent pages must be placed in the Site file.

8.1 Field Logbooks

All field documentation should be maintained in bound logbooks with numbered pages. If loose-leaf logsheets are used to document site activities, extra care should be taken in keep track of all logsheets. The original copy of all logsheets should be maintained in the central Site file. Note, all sample locations must be documented by tying in their location to a detailed site map, or by using two or more permanent landmarks. The following information should be documented in the field logbooks:

- Site name and location,
- EPA Site Manager,
- Name and affiliation of field samplers (EPA, Contractor company name, etc.),
- Sampling date,
- Sample locations and IDs,
- Sampling times and depths, and
- Other pertinent information or comments

8.2 Sample Labeling and Chain-of-Custody

8.2.1 Sample Labels

Sample labels will be affixed to all sample containers. Labels must contain the following information:

- Project name,
- Sample number, and/or location
- Date and time of sampling,
- Analysis,
- Preservation, and
- Sampler's name.

8.2.2 Chain-of-Custody

All samples must be traced from collection, to shipment, to laboratory receipt and laboratory custody. The Chain-of-Custody (COC) Record is a multi-part form that is initiated as samples are acquired and accompanies a sample (or group of samples) as they are transferred from person to person. The COC form is signed by all individuals responsible for sampling, sample transport, and laboratory receipt. (Note, overnight deliver services, often used with sample transport, are exempt from having to sign the COC form. However, copies of all shipping invoices must be kept with the COC documentation.) One copy of the COC is retained by the field sampling crew, while the original (top, signed copy) and remaining carbonless copies are placed in a zip-lock bag and taped to the inside lid of the shipping cooler. If multiple coolers are required for a sample shipment to a single laboratory, the COC need only be sent with one of the coolers. The COC should state how many coolers are included with the shipment. All sample shipments to different laboratories require individual COC forms. The original COC form accompanies the samples until the project is complete, and is then kept in the permanent project file. A copy of the COC is also kept with the project manager, the laboratory manager, and attached to the data package.

8.2.3 Custody Seal

The Custody seal is an adhesive-backed label which is also part of the chain-of-custody process. The custody seal is used to prevent tampering with the samples after they have been collected in the field and sealed in coolers for transit to the laboratory. The Custody seals are signed and dated by a sampler and affixed across the opening edges of each cooler containing samples. Clear packing tape should be wrapped around the cooler, and over the Custody seal, to secure the cooler and avoid accidental tampering with the Custody seal.

9.0 **Quality Assurance and Quality Control (QA/QC)**

A solid QA/QC program is essential to establishing the quality of the data generated so that proper project decisions can be made. The following are key quality control elements which should be incorporated into a concrete sampling and analytical program.

9.1 **Equipment Blanks**

An equipment blank should be performed on decontaminated drill bits and collection utensils at a frequency of 1 per 20 samples or 1 per day, whichever is greater. To prepare the equipment blank, place the decontaminated drill bit and utensils in a large clean stainless steel bowl. Pour sufficient deionized water into the bowl to fill all of the required sample containers. Next, stir the drill bit and utensils in the bowl with a clean utensil to thoroughly mix the blank. Finally, decant off the equipment blank into the sample containers. Note, a clean funnel may help to pour off the equipment blank into the containers.

9.2 **Field Duplicates**

Field duplicates are samples collected adjacent to each other (collocated) at the same sample location (not two aliquots of the same sample). Field duplicates not only help provide an indicator of overall precision, but measure the cumulative effects of both the field and analytical precision, and also measure the representativeness of the sample. Field duplicates must be prepared and analyzed at a frequency of 1 per 20 samples or 1 per non-related concrete matrix, whichever is greater. An example of a non-related concrete matrix might be the investigation of two different types of chemical spills.

Calculate the Relative Percent Difference (RPD) between the sample and its duplicate using Equation 1.

Equation 1

$$RPD = \frac{|S - D|}{\frac{(S + D)}{2}} \times 100$$

Where:

S = Original sample result
 D = Duplicate sample result

The following general guidelines have been established for field duplicate criteria:

- If both the original and field duplicate values are \geq practical quantitation limit (PQL), then the control limit for RPD is $\leq 50\%$,
- If one or both values are $< \text{PQL}$, then do not assess the RPD.

If more rigorous field duplicate criteria are needed to achieve project DQOs, then that criteria should be documented in the project QAPP.

If the field duplicate criteria specified above are not met, then flag that target element with an "*" on the final report for both the original and field duplicate samples. Report both the original and field duplicate analyses; do not report the average. Field duplicate samples should be indicated on the sample ID. For example, the sample ID can contain the suffix "FD".

9.3 Laboratory Duplicates

Laboratory duplicates are two aliquots of the same sample that are prepared, homogenized and analyzed in the same manner. (Note, proper sample homogenization is critical in producing meaningful results.) The precision of the sample preparation and analytical methods is determined by performing a laboratory duplicate analysis. Laboratory duplicates can be prepared in the field and submitted as blind samples, or the laboratory can be requested to perform the laboratory duplicate analysis. In the case of laboratory prepared duplicates, the field sampling team must be sure to provide sufficient sample volume. Laboratory duplicates must be prepared and analyzed at a frequency of 1 per 20 samples or 1 per non-related concrete matrix, whichever is greater.

Calculate the RPD between the sample and its duplicate using Equation 1. The following general guidelines have been established for laboratory duplicate criteria:

- If both the original and laboratory duplicate values are $\geq \text{PQL}$, then the control limit for RPD is $\leq 25\%$,
- If one or both values are $< \text{PQL}$, then do not assess the RPD.

If duplicate criteria are not met, then flag that target element with an "*" on the final report for both the original and duplicate samples. Report both the original and duplicate analyses; do not report the average.

9.4 Matrix Spike/Matrix Spike Duplicate Samples

Matrix spike/matrix spike duplicate samples (MS/MSDs) are two additional aliquots of a sample which are spiked with the appropriate compound(s) or analyte(s) of concern and then prepared and analyzed along with the original sample. (Note, proper sample homogenization, prior to spiking, is critical in producing meaningful results.) MS/MSDs help evaluate the effects of sample matrix on the analytical methods being used. The field sampling team must provide sufficient sample volume such that the field or fixed laboratory can prepare and analyze MS/MSDs at a frequency of 1 per 20 samples or 1 per non-related concrete matrix, whichever is greater.

APPENDIX D

Notification and Certification



CITY OF HARTFORD

DEPARTMENT OF PUBLIC WORKS
525 MAIN STREET
HARTFORD, CONNECTICUT 06103



TELEPHONE: (860) 757-9900
FAX: (860) 722-6215

PEDRO E. SEGARRA
MAYOR

KEVIN BURNHAM, P.E. DIRECTOR

May 9, 2011

Kimberly N. Tisa
Region 1 PCB Administrator
United States Environmental Protection Agency
1 Congress Street, Suite 1100-CPT
Boston, MA 02114-2023

Via Mail

Re: Notification and Certification Pursuant to 40 CFR 761.61(a)(3)(i)(E)
Self-Implementing Cleanup Plan for International Baccalaureate School East
Building and Connectors
85 Edwards Street, Hartford, CT

Dear Ms. Tisa:

Attached is a copy of the remedial plan developed to address PCB-containing building materials at International Baccalaureate School East Building and Connectors for review by EPA. Implementation of this plan will allow for the safe removal and proper disposal of PCB-containing materials prior to demolition/renovation activities at the site. This letter and the attached remedial plan constitute the notification required to local authorities at least 30 days prior to the date of initiating remediation under §761.61(a)(3)(i). Work will not commence without having received approval from EPA.

This certification is to accompany the Self-Implementing Cleanup Plan for the removal and abatement work to be performed prior to and during renovation/demolition activities at the site owned by City of Hartford in Hartford, Connecticut. TRC Environmental (TRC) has prepared this plan under the provisions specified in §§761.61(c) and 761.61(a) for the remedial work to be performed at the International Baccalaureate School East Building and Connectors located on 85 Edwards Street in Hartford, Connecticut.

Certification Pursuant to 40 CFR 761.61(a)(3)(i)(E)

I certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site are on file at the offices of TRC Environmental, 21 Griffin Road North, Windsor, Connecticut, and are available for EPA inspection.

If you have any questions you may contact Jennifer Peshka, TRC, at 860-298-9692 or via email at jpeshka@trcsolutions.com.

Sincerely

A handwritten signature in blue ink, appearing to read 'James A. Keaney Jr.', is positioned above the printed name.

James A. Keaney Jr.
Director of Capital Projects, City of Hartford

CC: Gary Trombly, CTDEP
Dr. Christina Kishimoto, Superintendent of Schools
Erik Plimpton, CHMM, PE, TRC

Plimpton, Erik (Windsor,CT-US)

From: Plimpton, Erik (Windsor,CT-US)
Sent: Wednesday, August 31, 2011 4:54 PM
To: 'Woodward.Katherine@epamail.epa.gov'
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

HSBC accepts the EPAs proposed verification sampling frequency for IB School.

Please expedite the Notification approval letter, as they need it in order to be allowed to bid the project by CT Bureau of School Facilities.

thanks

Erik R. Plimpton, PE, CHMM
Managing Principal
Building Sciences Practice Leader

21 Griffin Road North, Windsor, CT 06095
T: 860-298-6280 | F: 860-298-6380 | C: 860-798-4699

Follow us on LinkedIn or Twitter | www.trcsolutions.com

-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov [mailto:Woodward.Katherine@epamail.epa.gov]
Sent: Wednesday, August 31, 2011 4:23 PM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

(See attached file: Proposed EPA Approval Verification Samples by Location and Porous Surface Type1.docx)

Erik,

The attached table is the PCB Program's proposed Verification Sampling Frequency for the IB School. This draft document has not yet been reviewed by our management and is subject to change based on management review.

Please feel free to call us, if you have any questions.

Katherine Woodward, PE
Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912
Phone: 617-918-1353

From: "Plimpton, Erik (Windsor,CT-US)"
<EPlimpton@trcsolutions.com>
To: Katherine Woodward/R1/USEPA/US@EPA
Cc: Kimberly Tisa/R1/USEPA/US@EPA
Date: 08/29/2011 03:43 PM
Subject: RE: International Baccalaureate School SIP Comments

Further clarification below

Erik R. Plimpton, PE, CHMM
Managing Principal
Building Sciences Practice Leader
21 Griffin Road North, Windsor, CT
06095
T: 860-298-6280 | F: 860-298-6380 | C: 860-798-4699

Follow us on LinkedIn or Twitter | www.trcsolutions.com

-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov
[mailto:Woodward.Katherine@epamail.epa.gov]
Sent: Friday, August 26, 2011 11:54 AM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

Erik,

We still have questions about the caulks and glazing that is in the bridge connectors, and about the concrete in contact with the exterior window sill cap caulk on the first floor.

In your email, you say that there are caulks and glazing in the bridges that are homogeneous with caulk in the East Building and that they are shown in figure 3C. Only type 1 interior window glazing is shown on the figure.

Is there caulk as well, or are there only windows in the bridges?

What is the plan to dispose of the materials in the bridges?

Caulks & Glazes:

- Figure 3C - Interior window glazing type 1 (WG1) (>1<50 ppm)
- Figure 2 - Exterior window caulk (EWC) & window glazing (EWG1) (both >1<50 ppm)
- Figure 2 - Exterior window sill cap caulk (EWS) (>50 ppm)
- Figure 2A - Exterior expansion joint caulk (EJC) (>50 ppm)

The connecting bridges are to be demolished as part of the renovation project. Asbestos, misc. hazmat items and any PCB Bulk Product Waste, State Regulated caulk/glaze and associated PCB Remediation Wastes shall be removed prior to demolition and the remainder of the building materials shall be disposed of as C&D Bulky Wastes at a permitted C&D Solid Waste Landfill and/or recycled as Clean Fill or Scrap Metal.

Concerning the concrete under the metal sill caps on the first floor- we need some clarification. The difficulty may be that, from the description, we are envisioning different construction than is actually present. Do you have any photographs of the sill caps on the first floor that show where the caulk, metal sill cap and concrete meet?

Photos attached

Essentially there are a bank of windows on the first floor where metal caps were applied over the concrete window sill, and they are adhered with a black caulk (Exterior window sill cap caulk (EWS)). EWS is also found below metal caps on exterior window sills on the 2nd and 3rd floors, however those sills are brick façade, not concrete.

(Embedded image moved to file: pic11051.jpg)(Embedded image moved to file: pic25391.jpg)(Embedded image moved to file: pic16534.jpg)

Your email suggests that the Contractor decision to dispose of the concrete as > 50 ppm waste is based on effort to cut the concrete, which would require repair or replacement. If you cut the concrete 3" from the caulk joint and dispose of the remainder at a C & D landfill, won't that also require repair or replacement?

Yes, the decision would be to either 1) remove the concrete sill entirely (for disposal as >50ppm waste) and replace; or 2) cut at 3", complete verification sampling, and then either repair, or remove remainder for disposal/recycling as "clean fill" C&D and replace.

If you have questions, please call.

Katherine Woodward, PE
Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912
Phone: 617-918-1353

From: "Plimpton, Erik (Windsor,CT-US)"
<EPlimpton@trcsolutions.com>
To: Katherine Woodward/R1/USEPA/US@EPA
Cc: Kimberly Tisa/R1/USEPA/US@EPA
Date: 08/25/2011 01:28 PM
Subject: RE: International Baccalaureate School SIP Comments

Please see response below in red italics

In addition, please note, the CT Bureau of School Facilities is not allowing the Hartford School Building Committee to bid this \$50M+ renovation project out until the SIP is finalized, and the project schedule is being impacted, so anything you can do to expedite this review/approval would be very much appreciated.

Erik R. Plimpton, PE, CHMM
Managing Principal
Building Sciences Practice Leader 21 Griffin Road North, Windsor, CT
06095
T: 860-298-6280 | F: 860-298-6380 | C: 860-798-4699

Follow us on LinkedIn or Twitter | www.trcsolutions.com

-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov [mailto:Woodward.Katherine@epamail.epa.gov]
Sent: Wednesday, August 24, 2011 11:31 AM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: International Baccalaureate School SIP Comments

Eric,

We have reviewed your response to our comments that were submitted on July 27. There are a couple of items where we need some additional clarification.

1. In response 2b, your last bullet states that the tunnels were included in the investigation. Were the connector bridges also included? If so, were there any caulks or glazing present?

The bridges were included in the investigation. Caulks and glazes were identified on the bridges. They were homogeneous to caulks/glazes identified and sampled on the East Building and are included as applicable in the SIP and on the drawings as depicted on Figure 3C.

2. Concerning the concrete sills, on the first floor in contact with the Exterior Window Sill Cap Caulk- Are the concrete sills being cut at a distance of 3 " from the caulk or is the entire sill being removed?
How are the sills being disposed of?

Concrete sills are specified to be cut at a distance of 3" from the caulk, based on initial substrate sampling data indicating 3" depth in concrete to have PCB impact less than 1ppm, and disposed of as PCB >50ppm waste. Post removal verification testing as described Section 3.5 to be performed to ensure remaining concrete less than 1ppm. As such remaining concrete shall be disposed of as C&D Bulky Waste at a permitted C&D Solid Waste Landfill and/or recycled as CTDEP Clean Fill. Alternatively, at the discretion of the Construction Manager, the entire concrete sill may be removed and disposed of as >50ppm waste to reduce abatement labor effort to cut the sills, which would then require repair/replacement.

If you have any questions please feel free to contact me or Kim Tisa at 617-918-1527

Katherine Woodward, PE
Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

Phone: 617-918-1353

Plimpton, Erik (Windsor,CT-US)

From: James Foote [jamesfoote@ogind.com]
Sent: Wednesday, August 31, 2011 4:49 PM
To: Plimpton, Erik (Windsor,CT-US)
Cc: John J. Butkus (jackbutkus@arcadis-ogind.com); Randy Becker; Nagardeolekar, Vikas
Subject: IB @ Quirk - EPA SIP Comments - we accept the EPA proposal (do we really have a choice?)
Attachments: Proposed EPA Approval Verification Samples by Location and Porous Surface Type1.docx

Importance: High

Erik,

It sounds like you are recommending we accept the EPA proposal and it doesn't sound like there are any options other than to accept it, so we accept the EPA proposal based on your recommendation.

Please continue to expedite where possible and we are still looking for a draft / sample of the Owner written notification of acceptance for MD Fox -

Thanks,

Jim

-----Original Message-----

From: Plimpton, Erik (Windsor,CT-US) [mailto:EPlimpton@trcsolutions.com]
Sent: Wednesday, August 31, 2011 4:32 PM
To: James Foote
Cc: Peshka, Jennifer (Windsor,CT-US)
Subject: FW: International Baccalaureate School SIP Comments

Jim

I spoke with Kim Tisa at EPA earlier regarding the IB SIP.

They are drafting up the approval letter, but one thing they are going to impose is a little stricter substrate verification sampling than what we had proposed. The EPA proposal is attached. Its still a lot less sampling than what is prescribed in the regs (1 per 25 LF vs 1 per 5 LF), so you are still getting a big break, and ultimately its not that many more samples than what we had proposed.

I would recommend you accept it, particularly since they don't seem to be asking about going back to do any further caulk sampling any more to get more data to prove certain things are <50.

I told them I would get back to them after passing it by you.

Let me know if you want to accept it, and I will respond to them, and hopefully you will see the EPA approval letter for IB by next week, as this was the only item they brought up on the phone.

Erik R. Plimpton, PE, CHMM
Managing Principal
Building Sciences Practice Leader

Proposed EPA Approval Verification Samples by Location and *Porous Surface Type*¹

Material/Location	Linear Feet (LF) of PCB caulk	Number of Samples at 3 inches	Proposed Number of samples/Frequency of Verification samples to be collected
Brick in contact with Exterior Door Caulk	196	4	4 samples total collected/ 1 sample per 50 LF
Brick in contact with Exterior Window Sill Cap Caulk (East Building)	Approximately 592	3	14 samples total collected/ 1 sample per 25 LF for 1 st 100 LF, then 1 sample per 50 LF
Concrete in contact with Exterior Window Sill Cap Caulk	Approximately 100	1	4 samples total collected/ 1 sample per 25 LF
Brick in contact with Exterior Window Sill Cap Caulk (Connector Bridges)	Approximately 320	0	12 samples total collected (3 per side)/ 1 sample per 25 LF
Brick in contact with Exterior Expansion Joint Caulk	1840	4	39 samples total collected/ 1 sample per 25 LF for 1 st 100 LF, then 1 sample per 50 LF

¹ The Notification proposed a verification sampling frequency of 1 sample every 50 linear feet. The required verification sampling frequency under 40 CFR 761 Subpart O is 1 sample every 5 feet. Under § 761.61 (c), EPA can approve an alternative sampling frequency. The above table identifies the PCB program's proposed verification sampling frequency for the IB School, Hartford, CT abatement project. This proposal is subject to change based on EPA management review.

Plimpton, Erik (Windsor,CT-US)

From: Plimpton, Erik (Windsor,CT-US)
Sent: Monday, August 29, 2011 3:43 PM
To: 'Woodward.Katherine@epamail.epa.gov'
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

Further clarification below

Erik R. Plimpton, PE, CHMM
Managing Principal
Building Sciences Practice Leader 21 Griffin Road North, Windsor, CT 06095
T: 860-298-6280 | F: 860-298-6380 | C: 860-798-4699

Follow us on LinkedIn or Twitter | www.trcsolutions.com

-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov [<mailto:Woodward.Katherine@epamail.epa.gov>]
Sent: Friday, August 26, 2011 11:54 AM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

Erik,

We still have questions about the caulks and glazing that is in the bridge connectors, and about the concrete in contact with the exterior window sill cap caulk on the first floor.

In your email, you say that there are caulks and glazing in the bridges that are homogeneous with caulk in the East Building and that they are shown in figure 3C. Only type 1 interior window glazing is shown on the figure.

Is there caulk as well, or are there only windows in the bridges?
What is the plan to dispose of the materials in the bridges?

- *Caulks & Glazes:*
 - *Figure 3C - Interior window glazing type 1 (WG1) (>1<50 ppm)*
 - *Figure 2 - Exterior window caulk (EWC) & window glazing (EWG1) (both >1<50 ppm)*
 - *Figure 2 - Exterior window sill cap caulk (EWS) (>50 ppm)*
 - *Figure 2A - Exterior expansion joint caulk (EJC) (>50 ppm)*
- *The connecting bridges are to be demolished as part of the renovation project. Asbestos, misc. hazmat items and any PCB Bulk Product Waste, State Regulated caulk/glaze and associated PCB Remediation Wastes shall be removed prior to demolition and the remainder of the building materials shall be disposed of as C&D Bulky Wastes at a permitted C&D Solid Waste Landfill and/or recycled as Clean Fill or Scrap Metal.*

Concerning the concrete under the metal sill caps on the first floor- we need some clarification. The difficulty may be that, from the description, we are envisioning different construction than is actually present. Do you have any photographs of the sill caps on the first floor that show where the caulk, metal sill cap and concrete meet?

- *Photos attached*
- *Essentially there are a bank of windows on the first floor where metal caps were applied over the concrete window sill, and they are adhered with a black caulk (Exterior window sill cap caulk (EWS)). EWS is also found below metal caps on exterior window sills on the 2nd and 3rd floors, however those sills are brick façade, not concrete.*



window sill cap
caulk 2.JPG



window sill with
metal cap wit...



window sill cap
caulk 1.JPG

Your email suggests that the Contractor decision to dispose of the concrete as > 50 ppm waste is based on effort to cut the concrete, which would require repair or replacement. If you cut the concrete 3" from the caulk joint and dispose of the remainder at a C & D landfill, won't that also require repair or replacement?

- *Yes, the decision would be to either 1) remove the concrete sill entirely (for disposal as >50ppm waste) and replace; or 2) cut at 3", complete verification sampling, and then either repair, or remove remainder for disposal/recycling as "clean fill" C&D and replace.*

If you have questions, please call.

Katherine Woodward, PE
Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912
Phone: 617-918-1353

From: "Plimpton, Erik (Windsor,CT-US)"
<EPlimpton@trcsolutions.com>
To: Katherine Woodward/R1/USEPA/US@EPA
Cc: Kimberly Tisa/R1/USEPA/US@EPA
Date: 08/25/2011 01:28 PM
Subject: RE: International Baccalaureate School SIP Comments

Please see response below in red italics

In addition, please note, the CT Bureau of School Facilities is not allowing the Hartford School Building Committee to bid this \$50M+ renovation project out until the SIP is finalized, and the project schedule is being impacted, so anything you can do to expedite this review/approval would be very much appreciated.

Erik R. Plimpton, PE, CHMM
Managing Principal

Building Sciences Practice Leader
21 Griffin Road North, Windsor, CT 06095

T: 860-298-6280 | F: 860-298-6380 | C: 860-798-4699

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-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov [<mailto:Woodward.Katherine@epamail.epa.gov>]

Sent: Wednesday, August 24, 2011 11:31 AM

To: Plimpton, Erik (Windsor,CT-US)

Cc: Tisa.Kimberly@epamail.epa.gov

Subject: International Baccalaureate School SIP Comments

Eric,

We have reviewed your response to our comments that were submitted on July 27. There are a couple of items where we need some additional clarification.

1. In response 2b, your last bullet states that the tunnels were included in the investigation. Were the connector bridges also included? If so, were there any caulks or glazing present?

The bridges were included in the investigation. Caulks and glazes were identified on the bridges. They were homogeneous to caulks/glazes identified and sampled on the East Building and are included as applicable in the SIP and on the drawings as depicted on Figure 3C.

2. Concerning the concrete sills, on the first floor in contact with the Exterior Window Sill Cap Caulk- Are the concrete sills being cut at a distance of 3 " from the caulk or is the entire sill being removed? How are the sills being disposed of?

Concrete sills are specified to be cut at a distance of 3" from the caulk, based on initial substrate sampling data indicating 3" depth in concrete to have PCB impact less than 1ppm, and disposed of as PCB>50ppm waste. Post removal verification testing as described Section 3.5 to be performed to ensure remaining concrete less than 1ppm. As such remaining concrete shall be disposed of as C&D Bulky Waste at a permitted C&D Solid Waste Landfill and/or recycled as CTDEP Clean Fill. Alternatively, at the discretion of the Construction Manager, the entire concrete sill may be removed and disposed of as >50ppm waste to reduce abatement labor effort to cut the sills, which would then require repair/replacement.

If you have any questions please feel free to contact me or Kim Tisa at 617-918-1527

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Plimpton, Erik (Windsor,CT-US)

From: Plimpton, Erik (Windsor,CT-US)
Sent: Thursday, August 25, 2011 1:30 PM
To: 'Woodward.Katherine@epamail.epa.gov'
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: RE: International Baccalaureate School SIP Comments

Please see response below in *red italics*

In addition, please note, the CT Bureau of School Facilities is not allowing the Hartford School Building Committee to bid this \$50M+ renovation project out until the SIP is finalized, and the project schedule is being impacted, so anything you can do to expedite this review/approval would be very much appreciated.

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-----Original Message-----

From: Woodward.Katherine@epamail.epa.gov [<mailto:Woodward.Katherine@epamail.epa.gov>]
Sent: Wednesday, August 24, 2011 11:31 AM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Tisa.Kimberly@epamail.epa.gov
Subject: International Baccalaureate School SIP Comments

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Solid Waste Landfill and/or recycled as CTDEP Clean Fill. Alternatively, at the discretion of the Construction Manager, the entire concrete sill may be removed and disposed of as >50ppm waste to reduce abatement labor effort to cut the sills, which would then require repair/replacement.

If you have any questions please feel free to contact me or Kim Tisa at 617-918-1527

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Plimpton, Erik (Windsor,CT-US)

From: Plimpton, Erik (Windsor,CT-US)
Sent: Wednesday, July 27, 2011 11:41 AM
To: 'Kimberly Tisa'
Cc: 'jamesfoote@arcadis-ogind.com'; Peshka, Jennifer (Windsor,CT-US)
Subject: RE: International Baccalaureate School SIP Comments

Kim

Please find responses below in *Red italics*

In addition please find a *revised Table 4*



revised table 4.xls



Revised Table
1.xlsx

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-----Original Message-----

From: Kimberly Tisa [<mailto:Tisa.Kimberly@epamail.epa.gov>]
Sent: Thursday, July 21, 2011 10:04 AM
To: Plimpton, Erik (Windsor,CT-US)
Cc: Katherine Woodward
Subject: RE: International Baccalaureate School SIP Comments

Eric-

Here are EPA's comments on the IB PCB Abatement Plan dated May, 2011.

Should you have any questions, please feel free to call me at 617-918-1527 or Katherine Woodward at 617-918-1353.

1. General Comment. It is unclear how the PCB wastes will be disposed of. There are various statements concerning this topic, including the following:
 - a. On page 8, the plan says that the window/door, frames and countertops will be removed and disposed of based on the PCB concentration detected in the caulks and glazing.
 - b. On page 12, the plan says that no segregation of PCB wastes will be performed during building material abatement work and that caulks and glazing will be removed together with the affected building substrates at each location

- c. On page 21, the plan says wastes generated during building remediation activities will be shipped for disposal as PCB Bulk Product Waste at a TSCA-permitted facility and no attempt will be made to segregate the removed material.
- d. On page 21, the plan says that all wastes generated during soil remediation activities will be shipped as a PCB remediation waste at a PCB concentration of less than 50 ppm.

Thus, it would be helpful if a table were added to include the various waste streams, PCB concentrations, and proposed disposal facility.

No effort will be made to segregate federal/state regulated caulks/glazes and associated impacted building materials, and these removed materials shall be disposed of as >50ppm waste at a TSCA permitted facility, while the soil PCB remediation waste is characterized as <50ppm waste and will be disposed of as such at a state permitted facility

- *PCB Bulk Product Waste Caulk/Glaze - ≥ 50 ppm - TSCA permitted facility*
- *Non-Porous surfaces in contact with PCB Bulk Product Waste - ≥ 50 ppm - TSCA permitted facility*
- *State Regulated Caulk/Glaze - $>1<50$ ppm - TSCA permitted facility*
- *Non-Porous surfaces in contact with State Regulated Caulk/Glaze - $>1<50$ ppm - TSCA permitted facility*
- *Porous surface PCB Remediation waste in contact with PCB Bulk Product Waste - >1 ppm - TSCA permitted facility*
- *Porous surface PCB Remediation waste in contact with State Regulated Caulk/Glaze - >1 ppm (if any) - TSCA permitted facility*
- *Soil PCB Remediation waste - $>1<50$ ppm - State permitted facility to accept PCB soil remediation waste $>1<50$ ppm*

2. Page 3.

- a. Section 1.2. It is not clear whether there are two HVAC mechanical rooms on each of the three floors of the building or whether there are simply two HVAC rooms for the entire east building. Were the rooms evaluated for possible PCB contamination? Please clarify.

There are two HVAC mechanical rooms on each of the 1st, 2nd and 3rd floors of the East Building. Each room was included in the investigation and no suspect caulks/glazings were identified

- b. Section 1.3. This section states that the east and west buildings will be disconnected above ground and that the east building will be renovated.
 - i. It is unclear whether any of the structures are below grade. Please clarify.
 - ii. Please clarify how the connectors and tunnels will be addressed (i.e., will the structures be demolished?)
 - iii. If tunnels/bridges will be demolished, what will be the disposition of the wastes?
 - iv. It does not appear that any analysis for PCB bulk product was completed within the tunnels. Please

clarify. If sampling was not conducted, why?

- *The East building has a small Ground floor Level which is below grade and there are also two below grade tunnels which connect the East and West Building as depicted on Figure 3A*
- *There are also two above grade bridge connectors on the 2nd floor level which connect the East and West Buildings as depicted on Figure 3C*
- *Each tunnel and bridge connector shall be demolished*
- *Asbestos, misc. hazmat items and any PCB Bulk Product Waste, State Regulated caulk and associated PCB Remediation Wastes shall be removed prior to demolition and the remainder of the building materials shall be disposed of as C&D Bulky Wastes at a permitted C&D Solid Waste Landfill and/or recycled as Clean Fill or Scrap Metal.*
- *The tunnels were included in the investigation and no suspect caulks/glazings were identified.*

3. Page 5. Section 2.0. It is unclear if adequate sampling was conducted to confirm the PCB concentrations in the caulk and glazing which have been identified to contain less than (<) 50 ppm. Further, EPA is unable to determine how representative the sampling is. EPA generally recommends a minimum of 3 samples of each matrix type, unless there is limited matrix type present (e.g. caulk around a single window). Based upon a limited sample set of 1 sample per matrix, it is unclear if this is sufficient to be representative of Site conditions. Please clarify.

Sampling was conducted following techniques generally employed in the Building Sciences industry to identify, locate and representatively sample homogeneous building materials, such as the EPA AHERA asbestos inspection protocols, by individuals with EPA training and State of Connecticut licenses as asbestos containing building material inspectors. Buildings are divided into homogeneous areas and functional spaces based on dates of construction/renovation for individual wings/areas, and individual suspect homogeneous caulks/glazes are identified in each separate functional space through visual appearance and the materials functional use (e.g. exterior door window glazing on type 2 door style vs. interior window glazing on type 1 window style vs. exterior window sill cap caulk, etc.). Samples of each individual homogeneous material were then collected by completely removing the caulk and glaze from the sampling location and inspecting the sample location and sample itself to determine if there were any other materials present and ensure the collected sample is a representative sample of a single homogeneous material. Based on the inspection techniques utilized, the general lack of renovations to the building itself and the therefore homogeneous nature of the respective building materials throughout, it is believed the distinct homogeneous materials were identified and single samples of each homogeneous suspect caulk/glaze are sufficient to be representative of each material and properly characterize the materials.

Further, with respect to the 11 materials characterized as Excluded Bulk Product <50ppm, 9 have identified PCB concentrations at less than half the level at which they would be re-characterized as PCB Bulk Product and 7 have identified PCB concentrations at less than one tenth the level at which they would be re-characterized as PCB Bulk Product.

4. Page 8. Section 2.2. How was Subpart N modified to meet the needs of the project?

Substrate sampling was not conducted at a grid interval of 1 sample per 10 LF, but rather samples were collected from representative worst case caulk PCB concentration/substrate combination areas to establish the likely depths of PCB impact into the substrate, if any, and the proposed PCB Remediation Waste substrate removal depths, if any, to be further verified with post-remediation verification sampling if applicable.

5. Page 18. Section 3.5. Deviations from the provisions of § 761.61(a) can be approved, with sufficient justification, under the provisions of § 761.61(c). Since the proposed verification sampling frequency is 1 sample every 50 linear feet instead of the frequency specified in Subpart O, justification for the proposed frequency is required.

The reduced verification sampling frequency was proposed based upon the results of the representative substrate sampling conducted as described above and in Sections 2.2, 2.2.1, 2.2.2 and Table 2. Representative samples were collected from the worst case caulk PCB concentration/porous substrate combination areas, from all sides of the building, at depths of 0", 3", 6" and 12". The representative worst case data clearly indicated no PCB impact >1ppm at the 3", 6" or 12" depths, with a further 92% of the samples collected at the 3" depth <0.5ppm and 46% of the samples at the 3" depth <0.1ppm. In addition, the building materials/construction is very homogeneous throughout and largely unrenovated, such that the representative data obtained is expected to be representative of the worst case findings throughout.

6. Page 21. PCB Bulk Product Waste, under the current regulatory interpretation, would include the caulks and glazing, and the non-porous surfaces that these products are in contact with. PCB contaminated porous surfaces in contact with PCB caulk and glazing would be considered to be PCB Remediation Waste. A better term for the combination of porous surfaces and PCB caulk or glazing would be PCB Waste \geq 50 ppm.

Noted and accepted

7. Table 1.

- a. Please provide the number of linear feet of each type of caulk or glazing present at the Site.
- b. Please provide the laboratory sample identification number for each of the samples listed.
- c. The dates in the "Date Analyzed" column for the Exterior Expansion Joint Caulk and Exterior Window Sill Cap Caulk do not match the laboratory reports. Please check the remaining entries in the table and correct for accuracy.

Revised Table 1 attached

8. Figures 3A through 3E.

- a. The title for each of the drawings is the same. Please identify, at a minimum, which floor the drawing represents.

3A - Ground floor

*3B - 1st floor
3C - 2nd floor
3D - 3rd floor
3E - Roof*

- b. Figures 3C and 3D appear to be the same drawing although 3D has additional "interior backsplash caulk" shown inside of the Special Education Classrooms located in the lower corners. Please confirm the accuracy of the figures.

Figures are accurate. 3C is the 2nd floor, 3D is the 3rd floor

9. Given that the two buildings (east and west buildings) were constructed during the same time period, there is potential that similar PCB products are also present in the west building. Is there any plan to renovate this building?

There are no plans to renovate the West Building

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Table 1
Bulk Material Sample Analytical Results
International Baccalaureate School
Hartford, CT

Bulk Material ID	Laboratory Sample Identification Number	Date Sampled	Date Analyzed	Total PCBs (mg/kg)	Material Classification	Aroclor Identified	Approx. Total Linear Feet of Material
Exterior Door Window Glazing Type 2	CET AE62321	1/26/2011	2/11/2011	0.9	Excluded PCB Product	1254	154
Exterior Window Glazing	CET AE62319	1/26/2011	2/11/2011	35	Excluded PCB Product/State Regulated	1248 & 1254	2912
Exterior Door Window Glazing Type 1	CET AE 62320	1/26/2011	2/11/2011	2.1	Excluded PCB Product/State Regulated	1254	209
Exterior Door Window Glazing Type 3	CET AE62322	1/26/2011	2/11/2011	13	Excluded PCB Product/State Regulated	1254	190
Exterior Window Caulk	CET AE63323	1/26/2011	2/11/2011	17	Excluded PCB Product/State Regulated	1254	2472
Interior Caulk Type 1 (C1 - on Countertops)	CET AE62326	1/26/2011	2/11/2011	2.2	Excluded PCB Product/State Regulated	1254	370
Interior Window Glazing Type 2	CET AE62327	1/26/2011	2/11/2011	1.1	Excluded PCB Product/State Regulated	1254	878
Interior Window Glazing Type 1	CET AE62328	1/26/2011	2/11/2011	29	Excluded PCB Product/State Regulated	1254	2912
Light gray caulk	SA SB25771-01	3/15/2011	3/24/2011	4.03	Excluded PCB Product/State Regulated	1254	12
Dark gray caulk	SA SB25771-02	3/15/2011	3/24/2011	1.1	Excluded PCB Product/State Regulated	1254	12
Red caulk	SA SB25771-03	3/15/2011	3/24/2011	1.03	Excluded PCB Product/State Regulated	1254	12
Exterior Expansion Joint Caulk	CET AE62324	1/26/2011	2/14/2011	100,000	PCB Bulk Product Waste	1254	1840
Exterior Window Sill Cap Caulk	CET AE62325	1/26/2011	2/14/2011	56,000	PCB Bulk Product Waste	1254	1012
Exterior Door Caulk	SA SB24765-01	2/17/2011	2/23/2011	46,000	PCB Bulk Product Waste	1254	196

Table 4

Quantification of Materials to be Abated and Verification Sample Estimate

International Baccalaureate School
Hartford, Connecticut

PCB Bulk Product Waste	Locations	Comments	Verification Samples
Exterior Expansion Joint Caulk	Located between joints in the exterior brick façade, along the vertical sides of the windows and along the horizontal length of the mechanical room intake vents	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 1840 LF of newly exposed surfaces.	1 sample per 50 LF of newly exposed surfaces. 37 verification samples to be collected.
Exterior Window Sill Cap Caulk	Located below the metal window sill cap where it meets the brick façade on the second and third floors and where it meets concrete on the first floor	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 1012 LF of newly exposed surfaces. Metal window sill cap will be disposed of as PCB waste.	1 sample per 50 LF of newly exposed surfaces. 20 verification samples to be collected.
Exterior Door Caulk	Located along the metal door frames where it meets the brick façade.	Bulk material samples collected at 0", 3", 6" and 12" beyond contact point. Sample results indicated no penetration of PCBs into surrounding porous brick past 3". Removal will create 196 LF of newly exposed surfaces. Door frame will be disposed of as PCB waste.	1 sample per 50 LF of newly exposed surfaces. 4 verification samples to be collected.
State Regulated PCB-Material	Locations	Comments	Verification Samples
Exterior Window Glazing	Located throughout all exterior windows.	Glazing in contact with non-porous glass window and non-porous metal window sash. Whole window will be disposed of as PCB waste.	None
Exterior Door Window Glazing Type 1	Located throughout the exterior door windows.	Glazing in contact with non-porous glass window and non-porous metal door. Whole doors will be disposed of as PCB waste.	None

Table 4

Quantification of Materials to be Abated and Verification Sample Estimate

International Baccalaureate School
Hartford, Connecticut

Exterior Door Window Glazing Type 3	Located on two out of twenty-eight exterior door windows	Glazing in contact with non-porous glass window and non-porous metal door. Whole door will be disposed of as PCB waste.	None
Exterior Window Caulk	Located throughout all exterior windows.	Caulk in contact non-porous metal window frames. Whole windows will be disposed of has PCB waste.	None
Interior Caulk Type 1(C1 - on Countertops)	Located on Formica countertops where the counter and backsplash meet in Rooms 103, 105, 110, 113, 115, 116, 118, 211 A, 211B, 308, 311A, 311B, 325.	Caulk in contact with non-porous Formica counter & backsplash surface at point of contact. Whole counter will be disposed of as PCB waste.	None
Interior Window Glazing Type 2	Located throughout the interior windows in Rooms 102, 106, 112, 113, 209, 210, 223, 224, 309, 310, 323, 324, 2nd & 3rd Floor Administrative Suites.	Glazing in contact with glass window and metal window sash. Whole window will be disposed of as PCB waste.	None
Interior Window Glazing Type 1	Located on the interior side of all the exterior windows.	Glazing in contact with glass window and metal window sash. Whole window will be disposed of as PCB waste.	None
Light gray caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None
Dark gray caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None
Red caulk	Located on the roof skylight.	Caulk in contact with glass skylight and metal skylight frame. Whole skylight will be disposed of as PCB waste.	None